

<211> 1063
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2899

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atttcctcct atcacagcac aacgcctatt ttggcgctgg aattgctagt tttgcacgcc  180
tgtcaaattt aaatggaaaa gtcttttggg tactattgat aaatcattta tttttggcga  240
atggactaaa tacctagttt gttatactat caattattaa atcatctttt tggggaatta  300
ttttactccc attgntttta aataatatcg aaggattttt tatcttttga ttcaatataa  360
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tctctttaat tcaaaacaag ttgtattctc gactatcctt ttcttcaaaa atattttgac  480
ttttcttaaa attcatttta tttattttct ttattaagaa atcatatcat cttttctttt  540
taattagtct ttgtaaacta atagaaaaaa ctctttttca gaaacttaca cttctacacc  600
tccaccaggg gaagacaatt tcaactctgtt tactaatgtt cttgtgtgca gaatagttct  660
cggtactgct aattttataa tccgcacagt aatatgacat ctgctttttc ctatgataag  720
aaactattct gtgataagac ttcagtcaat tttctttgta ttttatttga aatatctatg  780
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aatacaataa gaggggatgc ctatactggg tctttcatga actaattatt tcttttatcg  900
gagtgcataa taattgctta aatacagttc acaattctgt gtcgaccogt gaattccttc  960
tccgtacaat aatatactca ctttataact ccatttgtgg gatcttaccg tctatcctta 1020
gttctctccg tattgtctac aacttcacac gattctgac acg                               1063

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<210> 2900
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 2900

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agcttgtagc aaccttagac gcgaatcttc cattctgttc tgctgaatg aacaaaccca   60
catagggcca ttccattttc atggctgcgt catgccgggt ggtggaatgt gtgttcctgc  120

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tgggctggcc gcggtggctg tggaaacgct tcacctacgt gggcagctac gacagcgccc 180
cgttgccctc 190

<210> 2901
<211> 568
<212> DNA
<213> Glycine max

<400> 2901

tatgaaaata agagaaagaa actttcaaaa taaatttgta tattaaacaa attatttttg 60
gtcaccttgt taaataaata tttatttttag tcaaattaat ttataagtta gtcgaataaa 120
cttttataat ctaattaact attagagcaa tttggcaatc atacccatgg ttaaagaagt 180
tatttaacca gtaaaaaaaaa ctttttaggaa ttaaatttac ttaaaatatt tataaaacat 240
atatactttt ttagggtaaa cgtatgtact taaaatatat cctttattca attttgtag 300
acatttttagt aattttatttg tttcatttta attgtgattt tataatattg atgatgtatt 360
aaatattttt ttcttaatat atccattatc ggatcatcatt aagtgagaaa acaaaaaaaaa 420
gtataaataa aagatagtcc aattaatata aaagaaaaaa atattataaa aattgcataa 480
taattttaat aaaatctata atataattac atatctaaat ttctgtacca aaatttgatc 540
acaaataaaa tggaggggatt ttatatta 568

<210> 2902
<211> 553
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2902

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aatcaaagat taatcaaaga acaactcaat tgaatcaaga agaattcaag agttcaacat 180
aagaatcaag aagaattcaa gaatcaagaa gaaagtttag agtcaagaat caagattcaa 240
ggctcaagat ctcaacaatc aagatcaaga ttcaacactc aagattcaag aatcaagaga 300
aggcttaatc aagataagta tgaaaagttt ttctcaaaaa ttgagtagca catgattttt 360

ctcaaaacat gtttaccaaa gagtttttac tctctagtaa tctattacca gattgttgta 420
atcgattacc agtagcaaaa ttgttttgaa aaagttttca aattgaattt acaatgggtc 480
catttaattt caaaaagttg taatcgggta caatgtnttg gtaatcgatt atcattgcct 540
ttgaacgttg aaa 553

<210> 2903
<211> 503
<212> DNA
<213> Glycine max

<400> 2903

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tttgatgtca tgtcaattat cagacacagg ttgactttct cttcatcctt tttatctgag 120
atggagtcac caaagtcttc ctagggtgctc atcaatcatt tcttgctctt tgagttgaat 180
gattttcttct tgtcttttggc cttttccaat tctaggcatt ttgatttgaa gtgtccaaac 240
attttgtatt catagcagat gactagactc ttctcattgt cccttttttc tttgaaatcg 300
tcatagttag ggatgttaat ggggaagggc aggggaaaag agtactccct cactccccac 360
cccctaacta accctctatc ctcggtcccg atccttgctg tgagggattt ttttcccttg 420
ttcccgcccc cgcggtgctt cactaacata atattcaaac tcaaataatc catgtattgt 480
taaactcaaa taaacaacac atg 503

<210> 2904
<211> 1080
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2904

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agtgcctatt catcctcact ccagcncnc caggatgaga catggaaaca cttcaaaaac 120
cctanaaaat tcgagaggaa accgcccggg ctacccctc aaagaacaac acataatttt 180
tctactttta taagaaaaac ggggtacatgc gcggagagcg gcgctaacac cgcgcacata 240
aaaagtagac ggagacaaaa aaacgtccgc agcggacaaa aaagccaacg acgcaggggc 300
ctatggagaa cgaaacgcgc gcaggggtgag gcctggcgag agaataataa acgaggctcg 360

tctgacatct gggagaataa agaacaatgg caaccgcggt acagagtgtg acaaacaaga 420
 acaaagactg ggcaagagga gtagctggac gaaagagagc aagaggggga ctcaacgaag 480
 gagaaagacg cgcacgatag gtggcagggc aaaaagacg ccgccgggag agcacaacga 540
 aaaaaggcag ccaaacaacg agccccaaga tgacaagacc acgcctcgag gcagaaaaga 600
 gagaagagcg acgcaaggca gaatacggcg tacggtggaa cggccgaaaa acaaacaagg 660
 cgacacaaga cgtgtgcgac agaagaaaca tctactgaggc gaacgacgcg gaagaagcgt 720
 gcacagcaag gggcgcagtc tggagcagca gcacatcagc gcagaaaata gccttcgact 780
 cgtggaaatc cgcaggactg aaagatgcgg agcgaatgct accggtacac gacgtcggcc 840
 aaagatggaa acaaagaaga gcgataaact gacgggaagg gatatcgga gatacataaa 900
 tcaagtccgc cgacacacca catagaagac ggggaagcac gccggggaaa agacggggga 960
 acgagacaat gaactagcga cagcaaatac gagaagcacg caggcgaaaa aagcaagcag 1020
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<210> 2905
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 2905

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 cttcatgatc ccgactcggt ggtggaggat gcatgaatga caatcaattc atggggctcc 120
 gaataaaagt ggagaatgga ggataggcga acgagcgcta ggcaatcaat tcgcg 175

<210> 2906
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 2906

tttcaactca ttctatgtac ccgtgggtggc ccacattttg tttcatgtat ttttattctc 60
 ttgtccattt gctttttata cccctttttg acatgcttaa gccatttatt taagtcattt 120
 ctgcttaaat ctaaaaataa aataaatttc cactgatcgt ttaaattata tcatccgtta 180
 attttgggta aaatgaattc cgaccgttcg gtcgttcctg aaccacgttg gaaataaaaa 240

aagaggtaaa ataataatat aataatcaaa aaataccttt tagtaaaata aaagcgaaag 300
atcaatcgga cgatttct 318

<210> 2907
<211> 189
<212> DNA
<213> Glycine max

<400> 2907

agcttaggag cctaaacttg tatcttcaat gcaaggaaac atgcttatgg cttggaatcc 60
aaaatttggg tttaggatta gaaaagcatg aaaataggga cttgtttgta agaatttggg 120
ctgccccatg attggtactt ctgcacctaa gtaacatggg aaatgctttt caatggtgtg 180
tagatatat 189

<210> 2908
<211> 497
<212> DNA
<213> Glycine max

<400> 2908

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aaacaatgat aggagtaaaa tctagtaaca tcataattta aactcactgc gacggataaa 120
tgacaatcac catactcaag agcctcatgg ataataata gatctttcct accctaattt 180
aaaaaaatta gacgattaaa caatttatgt ttggtgacta catagtggca ctaatatgta 240
aatgcaaaaa tgctgacctg gccatgttca ttgaaagtat cgagtccaac aattccaagg 300
tccagatctc cagataacaa ttttcttggt atgtatttgg gcctctaaaa ccaaactatg 360
agtttggatt gctgcagtaa tgcaagagaa ttggtttatg gtcattgtaga gatatagtac 420
attgatggaa gccaaaggaa aaaatagaac gcacatgagg aagcaactca cttaacttat 480
ttctgctttt tggatca 497

<210> 2909
<211> 342
<212> DNA
<213> Glycine max

<400> 2909

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caccttagga cttgaagtgg tacaacaaac caccgagaaa gtcaagttga tccaagaaag 120
gatgaggact gctcagagta ggtagaaaag ttatcaggat aagaggagga aagacttgga 180
attcgagggt ggtgatcatg tattcttgag agtcactctg tggactgggg ttggtcgagc 240
attgaaatcc caaaaactaa cacctcgctt catcggtcct ttccaaattc ttaaaagagt 300
cggtcctgtg gcataccaaa atgcattatc cccatcacat tc 342

<210> 2910
<211> 282
<212> DNA
<213> Glycine max

<400> 2910

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tataaggggtg gagcattttc gcaaaaaaac gtgaccctga ctgggtctgcc tatgatttta 120
cctacggaga gggacccgaa tcggcagagc ggggtctggc ttggcatgta cttctaagcg 180
cccgaagaga atttacactg acatgggtacc acatggcata tacgacagaa acctagtgtg 240
tatgatgcat accgcttatg caatgatcga tatcgattaa ct 282

<210> 2911
<211> 572
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2911

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tatccactct acaagggttg aagtaaagga gaccttcaat cctataacgc aacatggcgg 120
acaaaagtgg acagttaact tgaatgacca ttattgtcaa tgcggaaagt attttgcgct 180
tcactatcca tgttcacaca ttaatatctt ttctttttca gtctttgtaa gttcacacta 240
aaattgaaaa aaaaaaactt agaggtagca aattgaaaaa ttacacactt atatgaacca 300
aaaatgaaca aaaaaaattc catgcataaa acttgaaaaa aaatgcaaac ttatgggaac 360
tgaaaataaa taaaaaactt agagacacta aaattaaaaa aaaatgtgaa cttatgagga 420

caaaaccata tttaggccta tttttcaact gaattacagt ctattaatat tgacaccctt 480
 tgngtttttt tgggttcttg ctacatcaat ctcggttaaaa gaattttaca tcacacttta 540
 acctcaaaac ctttatattc caataatctc cc 572

<210> 2912
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 2912

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 tccgtgaaca aaatccaagc cgaggcgctt tcgtaacggt ttccgtgggt gatttcgcga 120
 agattttcaa ccgtttctcg acgttcttcg ttcgttcttc ggtcttcaac cggtaagtgc 180
 ccgaaatcga acttttcaat tcattctatg tacccttagt ggtcctcatt tgctttcacg 240
 tgcttttatt ttcatttcat ttactttccg taccctctt gacgtgcttt agtcatttgc 300
 tttagtcatt ttcttgcta ataaaaaata aaataaattt ccaccgatca tttgaattgt 360
 aacatccgtt aatttctgtt aaaagaaatc ggaccgttca gtcattggccg taccctgttg 420
 gaaacaaaaa agag 434

<210> 2913
 <211> 582
 <212> DNA
 <213> Glycine max

<400> 2913

ttgttgacaa cactgtggct gcagcattca atgctgacct tgtccaacct ccatcacctt 60
 tgctgccccaa attactttga tctctaagta catcatgatg taagctccat tggagcttgt 120
 aggcctagga tcttcttcat caatggattc ctttgcttct tggaagatga atggcagtg 180
 aacggataaa ggaagagaga gaggagacgc cacttcaaag agaagatgag tttagaaaaa 240
 gccaccacc ataggaggcc atggataaga gctttgagga agaaggagat gaatgaaggg 300
 agagggagag aagagcacga aattttgtgc tctaaatgag ctctgaaatc tgaagtttaa 360
 tattcaaatg atcaaagttg aaaaaaatgc acacacatga cctctattta tagcctaagt 420
 gtcacaaaat tggagggaaa ttcaaatttc acttgaattt gaaattgaat ttgtggagcc 480

aaaaattcac ttaatatgat tagtgaaatt taattatggt tcaacccac taatccaaga 540
tcaattccaa gattctccac taagtgtgct taagtggcat ga 582

<210> 2914
<211> 559
<212> DNA
<213> Glycine max

<400> 2914

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tttggtcatt ctgctttgat gaaaactggg gcaagtgaag aggggtgagaa tgaggagaa 120
acctatgcag tgactgccat tcctatatgg ccaagtttcc caccaacca acaatgtcat 180
tactcagcca ataacaacc atctccttac ccaccacca attatccaca aagttcatcc 240
ctaaatcaaa ccacaaaacc cacctaccac acgaccaatg ctaaaccacca ctttttagcac 300
gaaccgaagc accaaccaaa aggggaatttt gcagcaaaaa gcctgtagaa ttcaccccaa 360
attccggtgt catatgctaa acttcctctc atatctactc gataattcaa tggtagccat 420
aaccctgct aggtttcctc aacctccatt tttccgagga tacgacttga atgcaacatg 480
tgcatatcat ggaggagccc tggggcattc cattgagtgt tgtatgacct taaagcataa 540
ggtgcaaagt ctaaattgat 559

<210> 2915
<211> 539
<212> DNA
<213> Glycine max

<400> 2915

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gcgtaaaacc ggtaaaaaat aagtcaacaa ggtattgcat gcgaacttta tcatagaggt 120
ccgattctct acttggttg ccaacatcat cataatcaaa aaggccaacg cctaattggca 180
aatattcatc gactacactg atttgaatag ggcatgccct aaagacgcat accctttgcc 240
caacattcat agactagtgc atgggacatc cgagttccag gagcttagct tcctagatgc 300
ttactatgga tacaaccaat tcaaatgca tgctctaaac aaggagaaaa tgacattcat 360
cactaaagat gccaaacttta actgccagga caagccaact ttagtggagt tgggtatggt 420

aaagtaagtt aatgacaaaa aactccctta ctgagcatca tcccatgagg gaacatgttt 480
cctcaccaac ccaatgagtg gtgctacaag tatatacaaa tatgggacaa aacttttgt 539

<210> 2916
<211> 314
<212> DNA
<213> Glycine max

<400> 2916

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gaaaataatt tccaagagtc acatctgttg ccatcaaagg tctatttata tgtgacatag 120
aacacgaatt tgccaagagt ttttgagaac acaaaggctt tctcctctcc aaaaaagaaa 180
aattatctta tcctcttaaa aattccttgg ccaataccct tgcaattcaa taaggaatta 240
ttttgagtgc tccattgttc aatctatctc tttcaagaga gaattcctct tctcttcac 300
ctatttccaa aaag 314

<210> 2917
<211> 318
<212> DNA
<213> Glycine max

<400> 2917

gaccctataa tatacatcac cctatcgtgc cgcgatgacct ggcccatttt cagaccggct 60
tatttttttac tgaggatcac tatgctctgg accttgactt agataaacct ctacttaagc 120
gatagcagtg gactagaacc catgtttaac tcttgtgttg catactttaa catgattaat 180
aactccgacg tctatgatgg gtggccatag atgaatgcat aaccatatgc ataatagaca 240
taagcatatt atggataacg tagcccaaaa aatcgatgac attgtatatt caaccgatta 300
cgggaggaca tagctgga 318

<210> 2918
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2918

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gcagggtaat cgattaccag aagacaatTT ttaaaatcag cttttaaaaa aggttttgaa 120
 tttgaatTTT gaatcatgta atcgattacc agcaatgaaa ctttagaaaa cactttgaaa 180
 agtcatgacc cttcaaaata taactgtgta atcaattacc agtgaagaat ttcagaaaaa 240
 actttttgaa aaaacacatc tcttaaaacc attttgaaaa gtcacgaaag gcctatatat 300
 atgtgtgtct gacttcctaaa agcaagagag agatatgcta agagaactta attgccaaat 360
 tctctctcaa caactcttgg tcaaacactt gttaatctat tgataattca ttcaggaact 420
 ttnaattgta ttatcatctc taaaagagag aaactcctct aggaacttca atttgtatca 480
 ttcactctaa aggaaagaaa tctttatgTT 510

<210> 2919
 <211> 565
 <212> DNA
 <213> Glycine max

<400> 2919

acggatttgg tcttcaccgg tgaaaggatc atagtgggTT tggaaagagg taaatctgac 60
 catcttgctt tgataaatgc aaaaaaaaaa ctggggcaaa tgaagagggt gagaatgaag 120
 gagaaacca tgctgcaact gccattccta tacgaccaag tttcccactg acccaacaac 180
 ccttctcctt acccaccacc cagttatcca caaaggTcat acctaaatca accacaaaac 240
 ccacctacca cacaaccaac acgaacacca ctttagccc aaacccaaaac accaaccaaa 300
 aatgaatTTT gcagcgaaaa agcctgtaga attcaccCCA atTTTggTgt cctatgctga 360
 cttgctcca tatctacttg ataattcaat ggtagccata accccaacca aggttctcaa 420
 cctccattTT tctgaggata ccgactcaaa tgcaacatgt gcttatcatg gaggagcccc 480
 ggggcattcc attgagcatt gtaaggccct gaatcataaa gtgcaaggTc taattgaagc 540
 cggctggcta gaatttgagg agaT 565

<210> 2920
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 2920

gcttacatgt tccttatatg gtgctcactg atcaagtccg ttagcaaaaa atttaaacat 60

gttttaacac aaaacgaaaa ctgaaaataa agaaataaaa acaaataaga atctttttaat 120
 taagaaaaat cagtttagcat taaaaaactt ttttaaattt gcaacgttta taaatctggt 180
 gcttaatgat ttgaaaata taaaaggaaa cttaaaagcc gctaataatta cctagcttat 240
 cctaatttta ggctgaaaaa ttaaaatgtc aaaaatacc ctttgttttc aaattaaatg 300
 ccattaacat tacgtttgta aattaatttt tatttccaat tgttttcaaa ttaaagcca 360
 ttaacattac gttttcaaat taatttttat ttccaatcaa ttaaagccta tt 412

<210> 2921
 <211> 584
 <212> DNA
 <213> Glycine max

<400> 2921

tgtttttga caatagcacc ccacctgacg tccccaggt ctctgaccc ccgcaacata 60
 tctccaggta ccactctgtg atcaacgaat aaaagtagga agactgactc ttccacactt 120
 tctcacttca agcttgtagg attatgggt acccatcata tgtggtacta gggggcaatc 180
 aggcgatggt gcaagtcgac tctccacatc cacaatcac acataaatcc accatcccca 240
 gttgtccacc ttcaactgag ctacgtgct ccacgtagc ccttatctc gttcctctca 300
 acaccgggtc cccatcaatc cctccaagct ttcaaacat ccaagaaatt cagcatccaa 360
 acatcatgaa ctatccaaaa ccaagaaaac agggcatagg cagaaaactc tttccaaaac 420
 acattccaat accacagttt tctcactca aataccccag taacattctc tttgtttcga 480
 ttcgttaacc gttggatcaa ctcaaaattt ttactggagg tccctaatac atatctctac 540
 agtttgaccc gtgggatctt cagaaaactt tcataacca atat 584

<210> 2922
 <211> 917
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2922

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 atatctactn ccacaaggca cgaatgatgc atccctgcga aaccaaaaaa aaagaacctt 120

agctccaaac tctgaactct atacacgggg ggagtattac atacatgtgc atctaataca 180
 caccggaact ggcattaaaa tggctagcgg ggggtcaaaa ctatgggaga tacgggagaa 240
 cgttgaagat accacaagac ttcaagaata ttccccaccc cgaacttctc gggcgatgtt 300
 ctaaatttct tactggcgag gaaaaaagta ctgccaatca aacacaatag ggtggaaaaa 360
 gagaacaaca gtaggagacc tcttatgaag acaacttaag ttaaaccgg agggcaaaac 420
 cccttgtttc aactagaaaa cccctccct aaaaaggag gggatcattc gggacgaaaa 480
 aactcgatag tgctggcgga ttgacctgaa ttctacttat gaaacgcatg aattattggc 540
 atccacaaaa ccatcgagaa ccaaggcttt gcattccaca tgagcccaca attgaaaata 600
 tactctcatt tccgaaaaca aaatacaggg aagaataaat gtccatatgt agacactacg 660
 ttaagttatt gcatacatcc ccaacgtag gggaaaaatg agccctttaa atatactctc 720
 tccaaaccgt gaaaaaatta gttgttgtgc catattcgac acaaaaatga ggaaccccc 780
 gaacgctatc atgtgggagg aaagatttga cattacaact tgctcggtat gacaacaccc 840
 ctatacttcc tctatggaga agaaaagatg atcttctact ttagaaatca tcttctggaa 900
 gcgaaaattg taaaaaa 917

<210> 2923
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 2923

ctgagccaaa atcctgactc accataaacc ttgaccaggt gtgagaatgt caattcttac 60
 cctcgaagc aaaaaaaaaag gggagaggga aaatttccca tccaagagga agccaaaaag 120
 gagagaagga aaatttccaa tccaaggaaa aaaagagagg aaagggaatt cccaatcaaa 180
 gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa tccaagaatg ggagaaagaa 240
 aaaagagaag aagaaaggga agaaagttcc cgatcaaaaa aaaataatat gcacaaaggt 300
 ctttgaccg gacaatatct gaacaatata gaattgtcac caaatgaata aaaagaagga 360
 aagggaacca tgacctaaaa tggcttccc cctttagttg ccaggcaaaa tcttgtgcgc 420
 tagcaacctt ttttcgcccc gcactaaacc agaacagaaa agggaaaagc cagaaaaatc 480
 aaaagccaaa acacccaaag cccgaaaaaa a 511

<210> 2924
 <211> 581
 <212> DNA
 <213> Glycine max

<400> 2924

taaagatcca acctccatag aagctttctca accaagcttc cattagtgtg tctgcttcgt 60
 aaaggattct gacagctact cgtttattta acgccttctc aaaattccta gtattcaata 120
 tgaaggcacc tatactatga agaagatgac tgaataccag atgttagctc atttgactca 180
 actccatgaa actcatcaaa ataagaaggc taaagaggaa aaagttgttg ttgttggtgaa 240
 agaagatgct gcctccatcc aagctgaagc atctgctaaa gctatagatg acaccattgt 300
 atgtgggatc atcattgatc ttaccaacac tgggtgcatg gataaaactt ctgaggcatc 360
 taatgcagcc atagctgatg aagttgacca taatgcttta gaacctgggc caagcagtct 420
 acaacttcaa atgatgctac taataaaggc aaacatggct catctactgc aaatttttaa 480
 gaagggtata tttttcattg gcatttgtct atatctcaat gcttaacatg gactcatttt 540
 ctttaagagt ttcacaagct ttaaattgctt gagcggactc g 581

<210> 2925
 <211> 542
 <212> DNA
 <213> Glycine max

<400> 2925

taggctaaat taggccgaac tttcataatc tatttaagct aagtctagtc caacaagagg 60
 gatctaagga tgaaacttag ttttaagttag tctaaaccta agagggttgt cttaaattgag 120
 cccagtccaa caagagggat ctgaggatga agcttggatt gattcagtc aactaatgat 180
 cgatgttttag taatttaggc tacaacatat aacacagaag catgattgat tagaataaca 240
 cccttatatg catcagctgg tctgttagaa agaccaaca cttctaccta ctgctgttat 300
 cataccctaa tttcgtccgg ggaccatttg tttgggtggca tgcaaccttc gcttgactgc 360
 ttcggggtac ttaacaccca tcgttaggca atccgtgaag ttctgcgaca tgcacgaagt 420
 cgaaaggaag cattcttgcg caatccctaa agttcagtaa cattccagaa gtcaaaaagg 480
 ggatgggtgc gtgatccgta aagtttcgcg acatttacgg aagaaaacaa gtatcgttat 540

gt

542

<210> 2926
<211> 561
<212> DNA
<213> Glycine max

<400> 2926

tcacgcctaa gccaccttca ttcttaggca aacaaattgt agatcaattg atctatcgaa 60
tttggttaga atcccttgtc gcattccata aaatctcttc tgtagctttg tcaattctgc 120
attgatcctt tctagtggcc taaataatta tatatatata tcagcgaaat ggcattaaat 180
aaaaaaaaagt tatagtttag ttttttttat ggcgtgggaa ctttctttca tttaacagtt 240
tgaggagtgc taacttttct aatattagtt gcagatagaa attataaaaa aaaaaaaact 300
taaaaaatga taaagcactg agtatgtatt tggaaattga aaatttttca ttattcaagg 360
tcagcccaaa aagtataaga taatataagt tgatcatttt aggtttttat gtttattata 420
aatatattct aaaagcaaaa actcagtaat tatttaataca ataataataa tttattaagc 480
ttacataaat atatttatct ttgagaaaat ctttcatctt attatgagat tttcttcttt 540
tcataaacat atgtagggga t 561

<210> 2927
<211> 820
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2927

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gttgctctga acactctccg caggctgatg gtgatagagg cttttttatc taacccttat 120
cttcacttga aaaatggcta accgtgggtt tattagcggg ggttgatagg ctgtactttg 180
agttttccaa aatctccatg aaatattgcc aaccgcgtct tatgtggatg ttctcatttt 240
ttattttgcg atgaaaaatt cgccccacag tctctaattg ggtataaggt gaagcaactt 300
tgagcaactt ttgagctgga atgcgcattt tatactgagg tatactgata ctttttttna 360
agaaaatgcc tgccaacatt agagggtgggt tttggacttt aaagaggctt ttgagctggt 420
attacogtct tttgtgtttt tttaaagctt agatatgcac atacctattc cagggagagt 480

tgtgatgtat acaaattgag cgccctacaa ataatttttt ctttctgaca tctgagcttg 540
 gtcgccaaac ttcccttggc gagccatatt gttgggttga ccttaaccgc cccgtgtgtg 600
 tttggggttt tatgaccccc ccgccccca cattttggcc tcccggccga ccaatcctta 660
 actggtcccg cccgccccac cttatcgctg tctctacca tgtgagacca gacgtccctt 720
 tataggcccc ctcaaaaaaa acgccccct ccccatntgt ctcaacatcg cggggcgctca 780
 ttcccaaata tccctcttcc cccggtatcc gcccacactc 820

<210> 2928
 <211> 514
 <212> DNA
 <213> Glycine max

<400> 2928

aaactcagct tcttatccag gctcatcttg gtggtgaagc tccttcttcc atggcttatt 60
 ccctagagga tggcgccctcc tctcacctct tctcctttgt cttccactgc atctccatga 120
 tggaaaatca ccattaaagg acctcattga agcttaaaga tccagcctcc atagaagccc 180
 cacaatcaag atcccatcag tgaccttgac tgggtctccct atgatattac ctagtgcgag 240
 tgacttgact tgctagtgtg tggtttgtct tgtcatgtac tcctaagcgc ccgacgaggt 300
 ttttctactga catggtgccca cattgcatat aggattgagt cttagtgtat ttgttgcata 360
 acgcttgtgt attggtctat attgatttat ctgatgatat tgtgttttga ctattgagta 420
 tgcgaatgtt ctgaaaacaa atgagactat ggtgaaataa cgtgagttac gctcaagtaa 480
 attgtatttt ggtatataat aattatactt atat 514

<210> 2929
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 2929

tcgccctacg cctccgaatt tatgtcctct tgaacgaacc ccttaaagtc aaaggcaacc 60
 atctctgtcc ccatccattc atttctgccc ccgaacaggt gatctggatc ttgacctctt 120
 tcccctgcat aaaaaggtta cagtaaataa acaaagcacc attgtaacat aaatatgaag 180
 cctgacaaat tcacctgtgc agcttaatat tatatgatga tggaagtttg tctgaaaaac 240

ataaatctta atcttgaaaa actctggcaa caaacctgga agaatcaaga gaagtatatg 300
gagaatgcct gcgctgagaa tgcttgctat gaggagaccg caaaagttgt ctaaaaatga 360
aaccaccgta ctgacttggt gagtttaaag tatacaaaag ttcataaata caactcaacc 420
tggtacagtg tcaacactcc attggaagaa gccctattac atacatccta tctgtttcta 480
atgagtatga tca 493

<210> 2930
<211> 550
<212> DNA
<213> Glycine max

<400> 2930

tctagccaaa tggacttacc atgaattaat tcatttgata gcccctttga gcctatgttc 60
ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga tatcacctta 120
cccttaagga ataatggagc tttgaaattg ttttggaat aagtgtgtgt gtggtggggg 180
gggctatgtt tcattggaag atatgatttt tggccatgct taatgtttta ttttggccat 240
gcttgatgaa tatatatatt gcctaggtct tgctttaatc ttcaatttcg tactgttcaa 300
tctaaaaaaaa acaagtgaaa aaaaattcag tttctgcaaa ttcttcaatt tcgtactgtt 360
caatataaaa agaagaagaa aagaagtga gttgaataaa tgacgtcttg ttatgaggac 420
tcgatttgtg agccctgggt gattttgttg atattaaaag gggttgggtt tactaacttg 480
tcttaatttc cacttattcc ccatggctgc actatttctt tgggattagc tacttatttc 540
atatttttcc 550

<210> 2931
<211> 491
<212> DNA
<213> Glycine max

<400> 2931

ttgatgatat ggtcttcacc gacgaaagga tcaaagtggg tctaaaaaga ggaaaatttg 60
atcatcatgc tatgataaat gccaaaaaaaa aaactggggc caatgaaaaa ggtgagaatg 120
agggagaagc ccatgctgtg actgccattt ctatacaacc aagttttcca ccaaccacac 180
aatgtcatta ctacagccaat aacaaacctt ctctttttcc accgccaat tattcacaaa 240

ggccattcct aaatcaacga caaagtctgt ctaccgcact ttcaatgacg aacaccacct 300
 ttagcacaaa ccaaaaacac caaccaagaa atgaattttg cagcgagaaa gcctgtagaa 360
 ttcaccccaa ttccagtgtc ctatgctgac tttctcccat atctacttga taattcaatg 420
 gtagccataa ccccgaccaa ggttcatcaa cctccatttc tctgagaata ctactcgaac 480
 gcaacgtgtg c 491

<210> 2932
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 2932

tgcctgtccg atgcagcagt aatgatggcc cgagttatgt tggggaacgg ttacgaaccc 60
 ggaatggggt taggcaaaga caacagtggc ataactagcc tgataaatgc caaaagaaat 120
 cgtggaagga tgggttaggc tattaaccca ctcacgcccc tataaagaga agcatcgcg 180
 gaacgaagag tggcagtcaa agctcgcggt tgagacaaca tagtgaagga agcccaccct 240
 gccacataag taggagcttt ataagcgccg gtctggggga cgaagttgaa gtggtcgcg 300
 tatacgaaga tgatgctccg agtacattgg atttggtacg accatgccct cttgatttcc 360
 aattgggaaa atggcgagag gaggaacgcc ccggctttta cgcaacgagc ataatgtaaa 420

<210> 2933
 <211> 572
 <212> DNA
 <213> Glycine max

<400> 2933

taatggtatt atgagaaaag catctatgaa aaatatatttc tctatgtatc tagtgggtaa 60
 agaaaaagtg aaattcaaca tcatacatca tgcataata acattattta taggggagac 120
 gtctttgagg aagtgtgttg actatcaaat gcattatgtg tcatttcgag gtggcatcta 180
 atctaatagt aagttttctc aaaagtagct ttggaatttt tggaggtgga gggaagtgtc 240
 gtggaaatag atgttgattt tttgaattgg aaaatttaac ctatctttgc cttttgtgta 300
 cttaggtatc ctaattgggg ctaaccttac gaggaggga catgtatgaa gccactata 360
 gataaattct aaaaacaatt atagaagcat agatgggttat ctttggtcgg gagggatgc 420

tttattaaca ttaatttata aactttatgt aacactttga caaaaactac aactttgact 480
gatagaggaa acattgtggt tgatcatctg tgcataaatg tgtgttgtgc gtgtgccgcg 540
ctaatttttag ttaaacttgg tatagaaata ta 572

<210> 2934
<211> 383
<212> DNA
<213> Glycine max

<400> 2934

tatatggcct aggatgtggg tttgtgacta aattcaattt aaacacaagt cttgcacttg 60
ccacattggt acaactccct ccatcaatga tcaccatgca aactttgccca ttgatcaaac 120
atctaattgtg gaaaaagttt tgtctttaac ttttctccat agacttcaat taatgggcaa 180
gtaaccgtct aatcatcaac aaatctccct ccggtgggtt ctacacttcc tcctcatcat 240
cctcactctc tttttccttt tcaacttccg actcactaat gtactctcca tctctaagaa 300
tcatggcttt cttgttaggg cactcatgtg cataatgtcc caagccttgg caccgaaagc 360
acttcacata ccaacttttt ttt 383

<210> 2935
<211> 464
<212> DNA
<213> Glycine max

<400> 2935

ccatgatgaa tcaagattga ttcacagagt tttgatgata acaaagataa tgacaaaaag 60
ctcaaaagtc aataacactt catgataaca aagatgatga tctcaagaat caaagaatga 120
gttcaagatt gaatcaagaa cacttcaagg ttcaaaagga aatttgattt caagaatcaa 180
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctaaagattc 240
tagaatcaag aaaagactca atcaagataa gtattaaaaa gttttttcaa aaactgagta 300
gcacatgatt ttttctcaaa aaccatagag tttttactct ctagtaatcg attaccagat 360
tgttgtaatc gattaccagt agcaaaaagg ttttcaaaaa tccttcaact gaatttaca 420
cgtttcaatt gatttcaaaa tgttgtaatc gattacaatg attt 464

<210> 2936
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2936

tgcctaatta acctaaaatt gagagaaaat gattattaaa cacacaaaat ggatgtacta 60
 agtattttatt acctatactt aacagaaaat acttataaca ctacaaaata accataaatt 120
 ggaggagttt gatacaattt acacaagttt atacacaaaa gttagtcgta ttgaccgagt 180
 aacagtgctg tagctacgct tagtggttaag tgcgagttga gtccataagt tccgcttagc 240
 gcgattgctc ctttaggcac ttcaagactt tagcctcttt tgatttgaaa ttttacagat 300
 tttatcatta attccaatta aagagactcc aatgacaggt atctagacat atcaagattt 360
 atttacaatt tcctacaaaa gaactataaa ttggggaaac tatacatggt ttgaaaaagt 420
 tttttttatc aaaaattagt cgtataagac gactaacaga gcttccttgc catgaaaggc 480
 taaaaccctc agttggggat tcttattgag tagttgatgt aaaattcttt tcatatctaa 540
 ttaaggggnt gttagtgtgt tcaactggctc tatctatgct taat 584

<210> 2937
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2937

gcttttact ttgatgtata tgattgaaat ttaaaataaa tcttggtatc acaaagatga 60
 tttatttcaa atgtcattta accaaacatg tattcttggt atgaaaatct tcttaagtat 120
 gcattttgat gaaagtcatt atgatgctta gaatgttctg atgcaaagt ggtatatatg 180
 acaacaaata acacaattta aagaggaaag aaaaaaagga ttcaacacaa ggatttttat 240
 attgacaaca aagtcattat attgattctt cacccttcaa gatgagattt tccactaaca 300
 caaccaacaa tatgttggac cagccaacta ttgttcttac aactaccaac acccttggtg 360
 aactttcctt gccaacctg gactntacac atctctcac cacaacacca caattggtct 420
 tagcttggag atcaccact caaccatgac actcacttag tcatgggaga gacaaaccaa 480
 gtattcttca 490

<210> 2938
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 2938

ttaggagaaa ccattaaaac taaggtagtt cctaaacaaa aatcaattga ggaagcttcg 60
 ccgagtgccc ccattgaaaa acctttattc aaacctttca aagttagtga taaggctaaa 120
 cgaaaaatta ggggaacttag aaaaactaaa tccttaattg aaggcgtagg tgacaatcat 180
 agcgaattac taaacaagat tagtagtttg cttaagggtca ttccagatac tccccaagct 240
 tcggaaaata cttccaaaat ggtaacaaga agtacctcca aattaattaa tgttattaat 300
 gaagatagtg accaaaactt agataacaca actgagatag gatcagtggtc agaaaagaat 360
 ataaatccat taaactccaa aactggaaa acccctcca aattatatta tcaacgtcca 420
 actgccctg accttctatt agaagaaaga ggtgaaaaca actttaaaag ttttagtgca 480
 aataacatct atgaatggaa catagatgca caaacggagt ataacatcat gaatacactc 540
 caacatatga ccatg 555

<210> 2939
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 2939

tagacaatta catatcctcc ttctttgata cagataattc aaaatacttt gtttcattgg 60
 ctgcccattg aagaccctta tgctcactta gctacctata tagagatatg caatactatt 120
 aagttggcgg gtgtgcctac tgatgcaatc cagttgagtc tgtttctatt ttctttatat 180
 ggagaagcta agagatggct tgattctttt aaaggaaaca gtctgaagtc atgggatgaa 240
 gtggtagaaa agttcttaaa gaagtacttc cctgaattga agactgcaga aggcaaagtt 300
 gccatctctt ccttcacca gtttctagat gaatcgttga gtgaggcact catgggtttt 360
 cagaaccaat acagctcaac atattcatag atgggttgag accacaatct aagcagctct 420
 tggatgcttc agctgggg 438

<210> 2940
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 2940

tttagccaat tcagacaaca ataacttttt actcggatgt cttattgagt cccggaatat 60
 atcgagacgc tcgaaattga atgttgaacc tctgagctaa ctcaaacgac aataactttt 120
 tactcggatg tctgaatgag tcccgtgata tatcgagacg ctcgaaattg aatgttgaaa 180
 ctctgagcca attcaaacga caataaattt ttaatcggat gtgtgattga gtcccggaat 240
 atatagagac gcctcgaaat gaatgtggaa cctctgagcc cattcaaccg ccattacctt 300
 ttactttgaa ggttggatgg ggcccc 326

<210> 2941
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 2941

ctctgaagtt ttatggtttt ccaaaccttg aaaacttggt ttattcatct tttcattctc 60
 ttctccctct gccaaaaaga attcaccaag gactaactgc ctgaattctt tttgtgtctc 120
 tcttctccct tatccaaaag aacgaaggac taaccgccag aattcttttg tgtttccctt 180
 ctctcttgtc aaagaatata aaacgacaca gtctgagaat tcttttgatt cttccctttc 240
 cctaatacaa aagtgttcaa aggactaacc gcttgagaat tcttttgcac cccattcac 300
 aaagtatcaa aggtttaaca gcctcagatc tttgtcttaa cacattggag ggtacatcct 360
 ttgtggtaca agtaaagggt acatctactt gggtttgact gagaacaagg g 411

<210> 2942
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 2942

tcccctgcac caaatggctt tttctataaa tagccatggt gagggcaggg tttaggggct 60
 ggtaattgaa ggaatataag gaaaaatgca agaagaaagg gaagaaaaaa aaaacaaagt 120
 cgagacacca ccgaatcgaa ccgtggatca ttttctacat cctttctctg gctagtcttg 180

taccctgtgc gacagtcggt tagtttttct taagattttg atgtaattta tgtaccctta 240
 tgggtcctct atgatattat gtgcgcattt atcttctcta attattcgta aggcttaatt 300
 ctagtagatc actaatgtca tgaaaattgg ttttttttagt gagactagaa ggtgataaac 360
 acaacaaaaa tgagaacaaa aatccattca caacttaact tctttttatc aaatattacc 420
 t 421

<210> 2943
 <211> 507
 <212> DNA
 <213> Glycine max

<400> 2943

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 tttcttcttt ttcattcctt gatacatctg ctctgtgatc tgcttcctgg taatagcaat 120
 aaccattcaa tctacagctt actaaatcac gaatgccaaag aagttgattt cttatcctta 180
 ttagaccaac atacttgagc aaaaatttcg ggaacaatgt gagataagat caaatgaata 240
 aagattttga gtaatgaaat tttttctttt aacttttttg cattccaaaa attctccaag 300
 ttatcaaatt aactgttttc ctaaaagcta cttctgcaac accactaagg gattaattct 360
 acctagtttc tacattgtac caacgacatt ttgccacaca agttgatgac actaatagag 420
 ttagccgtca ttgaaatatt ttactaatct aacaacttag atgactaatt aggaataaat 480
 attaatgaaa ctacaaattt gaaaact 507

<210> 2944
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 2944

ttggagtttc caagtgccaa atcgtcttct tcttttgtcc agtcttcttc tggcttcaat 60
 tcattagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccaccttgc tttccagtat 180
 tcatagctgg ttccatccac aatgggtggg ctgttcaactg gtccttcttc tttctccatg 240
 ttcatcaciaa tttatctccc tagatctcac tcagtgaatt agagtgcccg ctctgatacc 300

aattgaaatt ctgatactga ggccagatgt cgtaccggat gtcacgacat cacgcttcag 360
aacaatgcaga ttatatattga ctgtctgaca gattaaacaa gttaataa 408

<210> 2945
<211> 635
<212> DNA
<213> Glycine max

<400> 2945

cgcccgaata tacgatgcat cacactcaat agccgatgag ttgctattat caacgggtcc 60
atgcaagcat gtatacgtaa cccgtacaat tataaagagg tccatgccat tcatgttcat 120
tactaacgag tcataacata gattcactgg ttaaaggaag gaggggaaag gaaagatcat 180
gcgattgaat cattccacta aaaaaaacta aaaaactaaa acaactaata tttgtccata 240
aaaaaaatca tattcattac tattatgcct tctaactctt cctgtgtaac ttggctctaa 300
ttattatgaa agatatctga tacatgtaca aggttggtgt tttcttttgt tacaatccat 360
cattgttacg gttatgccga tgaacactgc cctgaaccta actgctgagt gttagaattc 420
ttggctcttg ccaaaaagaa tcacttatag ctctagtatc aactatgtaa tccccacatt 480
gcataattat gagagatatc ataatttctt tgcttaattg aagccaaaga tcaacgttat 540
taatatggaa gcatgacatc atttattttc taaaaaatag gtacaggtag gatttggttt 600
caaaaatcct tttttataaa aacaaaatga caaaa 635

<210> 2946
<211> 381
<212> DNA
<213> Glycine max

<400> 2946

tagatgcagt tttctagggtg ttttgggtgt tattctccaa tcataatttg tgttttacct 60
agtaatgcat gtagtaaagt atgtattata gattagtata agctattcga ggtgaaactc 120
caattttgat tatctgtatt taagcttaat ccaagttgaa aatgggtaag gacattgaaa 180
tgttaccaa atgcttctta ctaaaatata aataaaactt tcatgatatc actaaaaata 240
acctaaactt tgaacaaaaa agttgagata gaaattagac cagattctca taccgggctc 300
aaatccttct cagtatcaac aaccatattg tgagttctgg ttatctgctc accctgctgg 360

tgcaacatgt caaggggcct t

381

<210> 2947

<211> 548

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2947

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cctaggggaat taaaaaaact taatggctag tgtaactgaa attgtggcaa ccaaagtca 120
cccccaacag ccaacaagtc agccaccatt tggctctcca aaaggctgat gcctagggttg 180
ccaattgggc ccttattaca acttgaacta aacctaacta aagccctttt agttgattaa 240
cccaaaacat atttttggtc agccaacttt acaaggattg ggccattatt tagacaaact 300
aaacactcta aaattgaaac aaagtgggtg catttagtcc tcctccattt gggccatgat 360
acaactcaca accttggact ttttctcttg aaacttgggc ttgtattcaa acagtatgga 420
caacacttgt tgaagagctt ccttgnctt tcttgcctca gccctcgtca taagtcctcc 480
aagtccttca agtggatcct ttgccttgc cttggtcatg tcctcatcat tccgtaaaaa 540
aatattat 548

<210> 2948

<211> 393

<212> DNA

<213> Glycine max

<400> 2948

ttctccgtga ggtacgtacg tcaaaattcg tgtatgctaa gatttggttg gagtgggttg 60
acccgaattg ggagtggcat cggataataa aaaaaagggt tttgtttgcc aatgtacagg 120
ctccgctgac gtgcgtgtgc tgctgggggc tcttcatcaa ggtaacacta acttctatac 180
ttcatttgac ctattttatt ttttttgggt agcaataagt aatgttgctt gatttttagta 240
aggtgttatt ctgtttgcac tataacagag aatcaaccat gattttctgta gatggatcca 300
cagggttcgt gaaaatgcct gcaaatgctt taacatttta ctgtccaaca gaggggggctt 360
cactattgggt tgtttaacat aattttttgc ttc 393

<210> 2949
 <211> 622
 <212> DNA
 <213> Glycine max

<400> 2949

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 ttacaacttc aaactgtaat tttgcacatc taaataaatc agattaatta actctgtaca 120
 ttccttagtt gtattacggc tatataagtt ttaatttaac taggtgtttg ataccaaatg 180
 ccacctTTTT atggtaacat gctaaccac cagttccata aagaaacccc aagtactgac 240
 tcaaaatgga aagtattaaa aaacttaaaa tgggcattct gggaacgatg caaaggtaag 300
 agctgtcagg gacttaagaa ttatagctca attcttgaat tcttggttag attatcttca 360
 tgtcctatta tggttgtcaa gttttgacgc agatctttcc cgtgacacaa tcacactttc 420
 aatttctgcc tattctttct ggactggcaa caacgatata aagctgcttc tttttatTTT 480
 cggagatTTT taatattcga agccggtaaa ctcaaattct tcaacttata taactagatc 540
 aacttatagt ggtataggtt acatttccta ttacaattat ggacaatTTT gtacccaaat 600
 tattggttta gaattatTTT tt 622

<210> 2950
 <211> 519
 <212> DNA
 <213> Glycine max

<400> 2950

tgtctcagcg tttatgcgag acagagacca acatgttagc tatcatcgcc aagtaccaag 60
 aagagttagg tctagccacc gccacgagc atagaatcgc ggatgagtat gcccaagtgt 120
 atgcggaaaa agaggctaga cgaagggtag tccactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgccttt accttgaacg ggagtcaaga actttcccga ttgttagcca 240
 aggccaaaga gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
 tgggtctctca gaccctgact agatacgact tcctttttga aataaaatga agtggtccca 420
 tgttttactc caaaaaaact tgtgccaatc aaatcactcc tacatttcat ctctagcatg 480

catttttttt tctttaccac tcttcacgtt tggttttta 519

<210> 2951
 <211> 512
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2951

tgattntgtg agttgatttt aaccttagtt tctatttatt tattagtcaa ttcaattgag 60
 aaagaaaaat cccacagaga aacgtccgat tgattttttt gttttatttt actaaaagat 120
 atttttgatt attatattat tattttacct cttttttggg ttccaacgtg gttacggcat 180
 gaccgaacgg tcggatttca ttttaacaga aattaacaaa tgttacaatt caaatgatcg 240
 gtggaaaatt atttttatttt ttgattaggc gagaaaatga cttaaataaa tgactaaagc 300
 acgtcaaaag ggggtacaga aattaaatga aatgaaaata aaagtacgcg aaacaagtgg 360
 ggaccaccaa gggtagatag aatgaattga gaagttcaat ttcgggaaat ttaccacttt 420
 gaagaccgga agaacgacga ataacgaatg atagactgtg gaaaatcttc acgacatcaa 480
 ccacggaaat gtttctgacg cgttacggaa gc 512

<210> 2952
 <211> 573
 <212> DNA
 <213> Glycine max
 <400> 2952

tctttgagaa aacttccttg agaagctaga gcttagctac acacaccctt ctcataacta 60
 agctcacctc cttgagaagc ttccttaaga agattcctta agaagctaga gcttaactac 120
 acatacctct ataatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
 cacccttat aatagctaag ctcccccca tgacaaaaaa catgaaaata acaaaaaaaaa 240
 gtccttatta caaagacaac tcaaaatgcc ccgaaatata aggctaaaac cctatactac 300
 tagaatggcc aaaatacaag gcctagacga aggaataacc tattctaata ttacaaaga 360
 taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca tgagaaccct 420
 agggcctctt cttggatctc tagoccaatc tacttggagt cttttagcca atgcccttgc 480
 ggggtaggat tgcgtcaacc ctacgactt tatctgcgta gggacattgt gtatcatgcc 540

gccaacatga tacaccttta ctaaggccac caa

573

<210> 2953

<211> 555

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2953

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ttagtgagcc ctccttatag ttaaagttct atctcccat gaactaaagg tacacaaggt 120
ctgccaatga tgatattttc tattcctaata ttttatctgt gtaggaatac aagcctgtca 180
aaaaccaag gtccaccatt ggtacgcact cctacaaaac ccaaggcttc tcttttgtcc 240
actcactcgc agcaactacg atgaccatcg tcaacgggtcc aagttcaaca aaacagacta 300
ccacagtact atttggcaag accttcaatc aagtgggaagt catgccaaact ccttataacc 360
atcaaaggag aagcttcacg ggtcanaatg acccatcacc aaattgagtg gcaagacctc 420
caattagatg cagcttgtag atactcntca taaccatcaa aggaggaact caacacgtca 480
agcgacctac cccaagactg gttgacaaaa cctttaatca aaggcaagtc acacatactc 540
ctataagcat caggg 555

<210> 2954

<211> 453

<212> DNA

<213> Glycine max

<400> 2954

ttgaggattt ggtcttcacc aatgaaagga tcgatgtggg tcctaaaaga ggcaaatttg 60
atcatcctac taggacgact gagaaaactg gggcaaataa aaaggggtgag aaagagggag 120
aaacccatgc tgtgactgcc attcctatac agccaagttt cccaccaacc caacaatgtc 180
attactcagc caataaccaa cctctcctt acccaccacc tagttatcca caatggccat 240
ccctaaatca accacaaggt ctgtctaccg cactttcaat gacgaagacc accttttagca 300
caaaccacaaa aaacaccaac ataaaggaat tttgcagcaa aaagcctgta tggttcaccc 360
caaattccgt ggcatatgct aaacttgatc ccatatccac tcaataattc aatggtagtc 420

ataaccccaa ccaaggttcc tcaacctcca ttt

453

<210> 2955
<211> 960
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2955

tctctgatcg ttaaattcaga ccaaacctac taaaattngt taattccctc aataattata 60
attcacacac nnnacagan cacgatggat ctggactagc gacactaana aantaaatac 120
ttgtagtcct actcttatca taactaccg ctcaagtgc ttttttctct gtaacaaaca 180
ttacgcctgg ccttttaaac tagatcccta ctaaagagct cccgggctaga ggacatataa 240
ataaagcgac cgggtcccaa ccatgattta cgaacgcgac ccaaaaaatc accatcacia 300
aatgatgcta tttctcgata atcttttttc ttaacaaaag gacacggcat cacggcgctc 360
agaaacactc ttccatctta taagtgtgtt tccaaaaaaa aaccccgctt aaaaataggg 420
cgactctacg atgcaccggg gcttacaac actccctcac aaaaatacta ccctttgaat 480
acgcggggcca ccacaaaccg tctatatacg accaacatac gtcttgatac ctccaatata 540
aaaagaattc tcatcggcct tcttctaate acaacaact ggcgaaaggc caaccatata 600
ccattatgag cagttgacta accccgtaca aacgatatac acaaaatatg caatcgttgc 660
tgcgaaacaga accctactct tggtcaccac tttaaatacc catccctca cattccacac 720
aacttcaaaa taccagaatc gacaccccca ctcaactcat tcaactgctt taaaacaaac 780
ggcccaaatg catctcggtc caaatagga cgtctccgta cgaagaattt gcttactct 840
attccacaac gggacaccgc gctccagaaa cagtgtggct ctacactacc acacggcaca 900
cagatatgcg catgcaacat tctcaagcgc atactttagg gagacacttt ccgtcctccc 960

<210> 2956
<211> 412
<212> DNA
<213> Glycine max

<400> 2956

ttcttttggg tttgattgga atttctgact tgaaagaatt ccttggttgc tttgacacac 60
aacactcaac acacaattgt tttggtatct caatttgggg aagaccatga gccattttct 120

tacttttcaa attacttaaa ctcttgaaat ttaaattgacc aaacctgtga tgctacatcc 180
 agctttcatc acttatagaa gcagccaagc attgaaattc tgcagtctga attccaatct 240
 tgaatgctct atttcttgac aaaggggcct ctataatcaa cctcctatct ctatcaaata 300
 tctttatttg attggcctcc atctgcattg agtagccctt ttctagcaac tgtctcaaac 360
 tcagcaaatt attcttcata ttgggaacat atagcacatc attgataaat ga 412

<210> 2957
 <211> 177
 <212> DNA
 <213> Glycine max

<400> 2957

cggttatagc atcttcttgc gtatccgctt ctgggtatttc cattttcttt ataaaaaat 60
 caacttcata tggcgccgat tcatgctctg cacatacacg gatttggttg aattcaataa 120
 ctgaacactt ccggtgatca cgacttgaac gaccattaaa tagatctcaa tgtcttg 177

<210> 2958
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 2958

tggacttcc tgggttttggg aacctctcct tcttcaagt taccctaaacc tcatcacctg 60
 gttcaagcat gactttcttt ctgcttttgt tggcttgcct tgcataagctc gcatttttct 120
 tttcaatttg ggccttcact tgctcatgca acttcttcac atactcagct ttagcctgtg 180
 catccttatg cttaaacata gcaatgtag gcataggcaa ccaatcaaga ggagtcaaag 240
 gattaaatcc atacactatc tcaaatggtg aacaattagt tgtgctatgg acagcccgat 300
 tataagcaaa ctcaacatga ggcaaacagg cttcccaaga tttaagattt ttcttttaaaa 360
 cagtcttaag cagcgtgcct aaagtcctat tgactacctc agcttgacca tcacctgtg 420
 ggtgacaagt agtagaaaac aacaatttag tactaatctt ac 462

<210> 2959
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 2959

tatgcttgat ttgcctcccg caacacatga acacactgga catgaccctg gaacttatgg 60
attgcatgga tgcttctaac cagattataa caagggtaca aggggtgaaga aagcaacaac 120
cattattcac taaatttgta ccaacttggg aatcaaaaata aattttgatc cgtctatgtc 180
ttctatccca aaccatttga agaacaagca aatatggccc attactctgc tgccagattc 240
gtacatatac caagctttgc cgcaaatcca caaataaagc acttattagt gtgtttgttg 300
acgtttaaac tgttttcctt taaaaaaaaag taattttctg ttttaatttg agaaaaaaaa 360
atatctgctt attaaataaa acatttttta agaagtattt ttttaaaatt acttatttta 420
agtttaaaca aattaattca aaaacttcag aatcatcac 459

<210> 2960

<211> 541

<212> DNA

<213> Glycine max

<400> 2960

tgaacataat taaaaaatat caatgaaaac tcacaacttc aagtgagatt atacaaactt 60
ctaaagtctc tctcagcttg aagctcaagg actttaacac gtacctgcta gttgtatttg 120
cctgtagtgt ttttaatacac gttttaatac atgggtttaga catatacatg tatatataaa 180
aagtagtaac aatgtgcttt acctggactt gatataatga aacagcttcc acaagaacac 240
caatggacaa accaacttca actacaacaa agtaattcag cttcacttgg agttcatata 300
atgagtaatg gcattagaag aagtaaaagc caaaccaact tcaagtacaa caaactaatt 360
cagctttttc tcaaccaaac tatgtcaaaa tacttggttg ctattaaaag tgtagtttac 420
tcatgtgaca atcatagtat tctagtttct attcatcatt aaaattcaca aagcacatat 480
agtggttctca tagcaatacc acacagagac aggggtgtag atagcagcca caagcccact 540
a 541

<210> 2961

<211> 574

<212> DNA

<213> Glycine max

<400> 2961

tagcgcaaca gccgtgctaa gcgcacttcc aagaattcaa aaatattaaa agattggcac 60
 ttagcgcttc ctgccccact aagcccagct caaaagctca aattacagaa tggatctggg 120
 gcttagctca ggatagcgcc cttagcgctg ctacaatcaa atttttccag agaagaagtg 180
 gcgcttagcg catcatccac gctaagccca ctgattaaga ttcaattaca ttgaagatat 240
 tgggcttagc gcagtgatat gcgcttagtt gaactattca gccaaccaat caggggtctc 300
 tgcgcttagc gcgagcaagc tcgggctgag cgggtgaaga atgagcgctt atcggataga 360
 caattgcaaa aattttctaa gtctcttttt gtctatctct tcacacaagc ttacaacccc 420
 ttgttcatta ctaaacaaga tgataattaa tcacaatcac aagcaaggta ttctaactac 480
 atgcaagaga taagaatgaa aaatagaaaa gggaaagaaa agtcgggttg gcttccagta 540
 agcgcttttt taacgtcact agcttgacac gtca 574

<210> 2962
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 2962

cgccaaaacc gatgaaaggg acgacttggg ccaataagat ggcgtttttc acccggcgat 60
 tacctttttt ttatgagggt gatttaatca tgacattcac gtactgcca ttataatcgg 120
 aacgccttta acctgtaaat ttttataatt attataaacc cataggggtc gctctcctta 180
 cctgtttgat caccggaaag gcacctgaag ggcaactgat tgcgtccat atccaactgt 240
 ggcggcggtc gattaccact cgtaaataac actactgcc ggcggtccct gtaatttcat 300
 gctcacggca aacatgaggg attgtgaata ctacacaatc t 341

<210> 2963
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 2963

tgtataaaac ctctgcctaa aagggaaaat aaaaatgatt ttttttcttg acaggtgacc 60
 atgactaaat ttaagaaata aaatatggga caggggtctaa agagaatgcc aaaatttttg 120
 ggctcattgc aaacctgata agtatttgtt tgaaagaaag agttggctga tatttggaat 180

gtaagccctc ttaaggtctc tgtaatgcta gatttcccat acaaagtgtg ttcttctctc 240
ccaacagatg tggttgccaac agaagtatctt acattattaa tgacacttac ctatcattca 300
tgcaaagaag aaacttcaat ggtattaaaa tcaatatgtg catacagttt ggaaagttaa 360
ggaagaagca catttataag aaaaaaagt aattaaaaaa cttaagtacc aaccacttca 420
ggaaatacgg aaactttatc aactaggaac ttcaacagct ctggc 465

<210> 2964
<211> 217
<212> DNA
<213> Glycine max

<400> 2964
tatactgcaa acatctacaa taaaccttct caacctcagc agcttaatca accactacag 60
aacaatatg accttttcag caacaagtac aattctaggt ggaggaatca ttcaaactt 120
atatggtcga atcccttcca acaacgacaa caacaacaac caccttattt ttataaagtt 180
gctggcccaa gcaaaacata ttttcttcca ccaatcc 217

<210> 2965
<211> 582
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2965

tgcttttggc tgatccattc ggtctatacc aagtgaactt tctctacctc caaatcttca 60
atccactcat taaactcctt tatgctatta tccgcctctc ctcgttgaca tctgccaatc 120
ctttttgaag ggtttctgac attggttgaat tcccccaaaa tgcaccataa tccttcatta 180
tgagaatttt tcaactgctt tatgtttctc catagacttc tcttgctctg aacatcacia 240
ggtgaataaa tgtttgcaat atgcacctgt tgagcctect taagcccttg acctaacaat 300
aaaatgaagc cactgcctat gactttactg tgcactttgc aatcttctgc attccataaa 360
cacaataacc cgctgatgt gtttactgcg ggctgcaatt cccaccctac ctccgaagtc 420
cctcaciaag tatggcacac actcatgtca atgttttctg gtttagtctc ttgaatacac 480
caacanatcg attttttctt ttcggaccca ttctctaaat gcagcccatt ttacaccct 540

ccctaagacc cttacattgt aggaaataat attcatgggt tt

582

<210> 2966
<211> 348
<212> DNA
<213> Glycine max

<400> 2966

aattttaaatt gatgtttgta tttatgggag gtttgtttat gccctttttg ctttaagagt 60
gacgccccac tggtaaaact aactttccaa atgcttgctt tctcaggaat ggacccaag 120
aaacttgctt catagagggt cacgaaggac aatgcgggcg aaggaactag tttcgccccg 180
gagtacgaca gtcaccgctt tatgagcggt gtacaccagc agcgctttta agccatcaag 240
ggatggtcgc ttctccggga gcgacgcgtc cagctcatgg acgacgagta tactgatttc 300
caagaagaaa tagggcgccc gcggtgggca ccaactggta ctcccatg 348

<210> 2967
<211> 530
<212> DNA
<213> Glycine max

<400> 2967

tttcttcacc cttattgcag ttctacatca tccgcaccac ctttaacccta aaaaccaaca 60
taaaacacat caaaaccttg aaatagtaca ctttatgaa acttctaaaa gtgcctatgg 120
aagaaaacaa aaatggagga tgagagggga aaaaaaaggg tttcttacct ctaaaatcaa 180
tccagattcg aaaaatcctt tgtgctaagg tttcaagtca ctaaaaacta agtgtatgac 240
tcttctcttt ttttctatgc gcaccgcata gcttcttaag ctcaacttact ccattctata 300
tcaactcaagg ccatttcatt ttagcccaaa cattctaaaa cagactattc acacccaaac 360
aaggtttttc gcatttgtaa acataacata catacaagta ccacacattg tcatctcata 420
attaattaat taattaatta caggaactta attaaagtta attactcttg caatctaatt 480
aatcactta atcaaacatt acgaagaaac acaatgttac atttatccta 530

<210> 2968
<211> 503
<212> DNA
<213> Glycine max

<400> 2968

tgtatagttc cccaatttat ggttattttg tagtgatttt tgtatataaa tcttatttta 60
tggttaatgt tgtctctaga acatttccat tggatttaat gatgaaatct gtgcattttc 120
aggtgaaaaa gaagctaagt tttgaattgc aaaatgtagc agtggggcta agatcagcag 180
ttgggctaag cgcatatcca ccgctaagcg cagattcagc gcgcttagtg caaaggagaa 240
tctggcagag catcagcatc aaaggagaat ctcccttgca tttgttttcg tcatcttcgc 300
cacgggaagc cggaaggctc gcatagtttt cttaattgca tgcattggac accatggtaa 360
tgactgtaaa tgagccatga tacccaatgc attgtgggta agagagggtg gtcttctggg 420
ctcttggtgc catagataaa cgtgttttgc atgcatagca taaacattcc ctgatgcatt 480
catcatacct tcttttatga tag 503

<210> 2969

<211> 523

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2969

tcttatccag gtaattcttg gtggtgaagc tccttctgcc ttggcttatt ccctaattgga 60
tggngcctcc tctctcctct tctcctttgc cttctgctgc atctccatgg tgtaaaatca 120
ccattaaaag acctcattga agctcaaaga tccaccctcc atataagccc cacaagcaag 180
cttccatcac cggagctctg ataccaaatg atatgaacc ccatggcaca agggctgact 240
tatgagcgtc taggatggaa aatgcggaaa ttgattaagg aaaggatgga aaataagggtg 300
gttaatttcg tgggtcttaa taagggtggt cttggcataa aatggatgaa tgggatgcgt 360
aaatgtatgt taagtgggtg ctggacagaa atatagaaat ggcaataact gaagctacag 420
ggcttcaaat gaggtgattt taacacgcgg tgaaaggctc cgttttgaaa ttcaatttac 480
gcttaagaat cacttaattt gagtgcgtaa aatgggagat atg 523

<210> 2970

<211> 445

<212> DNA

<213> Glycine max

<400> 2970

ttccgccaga cttacggaaa gatcttagag ttgaccatag cagaggtgtt catagaagcc 60
attgcagcac ttaccaata ctacgaccag cccttgagat gcttcacatt cggggacttc 120
caattagtag caaccattgt agaatttgag gaaattctag gatgtcctct cgggggaagg 180
aaaccatatc tttcctccgg gtgtctcccc tctttgagca gaaatgccac tgtggtcaag 240
gattcaacca caggtttgga ccgcataaaa cagactcgga acggcatagc gggcctgcca 300
cagaagtacc tagaaaacaa ggcgaggggt atggccaatc aaagagactg ggtccccgtt 360
atggatgtgt tagctttgct aatttttggg gggcggctct tttcaaactg ggatggtttg 420
atagacctag cagcaatcga cgctt 445

<210> 2971
<211> 461
<212> DNA
<213> Glycine max

<400> 2971

agcttctttc ggaccttgaa caagcaacta actcctcttt cagaaccatg ctatgtgctc 60
gcgactggtc cctctcttcc cttcgcagct tgagttcact attgctaccc catagagctc 120
cgcgaaattt attccggcca tactcttctt tgcgagccct cttggtctct tattcaaggg 180
ctctcgcggt aattgcattc tcttcccgtt acccggcaca ctcttccga atgtgtgtag 240
cggccaactt gaacttctcc ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aactcttttc gctgacgact ttttaacttg 360
cgagccaatc taaacctcgt atatgaactt tcagccattc gtggtaccca ccaatgatgc 420
cattacgaat gccctaagc tcttgatctt ttcttaacgg g 461

<210> 2972
<211> 517
<212> DNA
<213> Glycine max

<400> 2972

tataagaaca aaattgctc aatcatttcc aaatatgcat gtgaatttgg acgcatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
tgatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180

aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatact ataattcaaa gaaaaacatg 300
 caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ctagcaaaat 420
 caaagaacac tccccccccc cccatactt aaacaacaca ttgtcctcaa tgtagcacia 480
 ttaaaagatt aaaaagaatt aaatcattca agagaat 517

<210> 2973
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 2973

tgcctcaaag aggtccagga aagacaaggc ggccgaagga actagtttcg ccccggagta 60
 cgacagtcac cgcttttagga gcgttgtaga ccagcagcgt ttcgaagcca tcaagggatg 120
 gtcgtttctc cgagagcgac gcgtccagct cagggaggac gagtatactg atttcagga 180
 ggaaataggg cgccggcggg gggcaccact ggttacaccc atggccaagt ttgatccaga 240
 aatagtcctt gagttttacg ccaatgcttg gccaacggag gaaggcgtgc gtgacatgag 300
 atcctggggt aggggtcagt ggatcccgtt cgatgccgac gctatcagcc agctcctggg 360
 atatccgatg gtattggaag agggccagga atgcgagtat ggccagagga ggaaccggtc 420
 tgatgggttc gatg 434

<210> 2974
 <211> 782
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2974

tgaatctcca ttggagttgt cggttgtagc cactccataa ccgactcaaa cttgttcgga 60
 tccaccgcaa ccccgctcctt agaaatcacg tgccccaaga actgcacttt ctccaaccaa 120
 aagtcacatt tcgacaattt ggcgaacaac ttcctatccc tcaggatatg caacacaatc 180
 ctcaagtgtt tctcatgttc ctcttatttc cttgaatata ctaggatatc atcaatgaac 240

acaaccacga actgatccaa gtaatcatgg aatatacggg tcatataatc catgaaaata 300
gccggagcat tagtcaactcc aaatggcatg actaagtact cgtagtgcc ataccgagtc 360
cgaaacgtag tttttgggat atcttccttc ttaactcgaa ttngatgata ccccgatcgc 420
agatcgatct ttgaaaatac cggtgctccc ctcaattggg caatcaaatc atctatcctt 480
ggtagaggat atttgttctt gatagtgacc ctgttttagct tgccgtagtc tacacacact 540
ctcatacttt catgctttct tttaaaccaac aagaccgggtg ctcccatggg gatgcgcttg 600
gacgaaacaa tgggtgctca aaaggtctgc acttggtgctt tacctttgta gtcttaccga 660
gacatctata tgtgcatca cactggatcc ccccggtccc aagcataagg gattccctct 720
ctttcagggg gattacaaaa tattccgaaa actctggaat ttggcccacc ggtaataaaa 780
at 782

<210> 2975
<211> 578
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2975

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tgcctcctag gagcgcttct ttaatgtctt tatccagacg tgggggttggtg gttggggctt 180
cgccgtctca tctcctac cttctttctt tgatcgtgag caactctgat catggaccta 240
gcacctgttg gcacctgccc taatgctttg acaagaaaag tgttaacatg caaatgtgaa 300
gaaatactac aggatgctca tgtaggggtg tggntttctc tttttcgttg tcattttcaa 360
ttttacttaa cgcttactgc accctgctga acatgccgaa tggctccgga atatctgtcg 420
tgagagtgag caaaaacgag agtgtacgtt catgcccac gacgatataa gtacanagga 480
acaacactag aaggagagat gcacaatatt acatcatatt tattaatggt gagaatattg 540
gttacaaaaa aaacttacga cgtggagatt ctaatgag 578

<210> 2976
<211> 540
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 2976

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acagatcatc ttcatatcgc ctttctttgg caccacctgg accaaactca cccaagtgct 180
atcagagttg gataaattag tcttgcttca agcaacttga ggactttttt gcacacctcc 240
tccttcatag atggntgagt ctcctctatg gatgtctatc cagtctgaat tcaccttcca 300
tcattatgct atgcatgaaa taggatggac taatccccctt aagatcaaatt atgtgtcatc 360
ctattgttgt cttgtgcttc ttaagaacct ccaccaatag tgcttcctca attgaagaca 420
acgtattatt gataaccact agtttaacat catctgcttc ctgggagaca tacttaagggt 480
gaggaggtag aacccttaac tcaaccttaa gtttttctgt aagagtgcct ttttttagct 540
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<210> 2977
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 2977

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catttgtggt ggaatctcgg ttaatcacta ttaaaataaa atccaactga tcgttcacgc 120
tgtaacttcg ggtaataaaa aaaaagcaga ataatcataa aataatcaga atatttagaa 180
aaaaataata ataaaataat cagactaata aatcggacgc ttttcttaga aagtttcctt 240
aaatgaattg actaataatc aaagtgaaac taaggctaaa atcaactcac aaaccaagtt 300
ttgtgcgcaa aagtcactcc aaaccgtttt aagggtccaa accttaaaac ggctctcttt 360
gcttttattg gttaaaatgg accattcaaa gcataaaatt aacacataac tttctcactt 420
ttgcaagaat acgtacgtct gatttctctca tc 452
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<210> 2978
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 2978

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tcaagggttca agcttccaag aatcaatata aagattcaag actcaatatt caagaatcaa 240
gagaagactt aaatgagata agtatgaaaa gggttttttca aaaacttagt agcacatgga 300
tggttttctca aaaaatgttt accaaagagt ttttactctc tggtaatcga ttactagaat 360
attgtaatcg attaccagta gcaaaaaatg attttgaaaa agttttcaca tgaatttaca 420
acgttccaat tgatttcaaa aagttgtaat cgattacaat gtnttggtaa tcgattac 478

<210> 2981
<211> 334
<212> DNA
<213> Glycine max

<400> 2981

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taccttgtgt tgtcttcagg agctcatata aagagtgtat gcacacaagc cggtatgtat 120
gctatccgtg cccggaggaa gactgtaaca aacacagact tgctttatgc accaaataaa 180
gtcatctaag gataccagaa catcactgca actcccaagt atatgggtcta caactgaggt 240
attttttcat ctttttccga gaccatagca gctttatctt tattttcccc tggaaattga 300
agggcatgcg attctatcta attaactctc tggt 334

<210> 2982
<211> 620
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2982

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atggcgctc ctctcacctc ttctccttg tcttctgttg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
gcttccatca gagaccctcg aaggcaatac gaggtgtcga ttccgtggca cgatccgact 240
cacggctact tcgttggtag atccaaagga accagcacgc acgcttcagt gcaactgtgga 300
gtggatctta cctacaccta ctccatatct actagtggag ccagtccaag tgattgaggt 360

gacgtcatct aaggaagacc ctgaggagga cccagaggag ctacctcctg agcctgctgt 420
ggatgctctt gactttctag agggatgatga ggaccactc cctgagggtg attctccga 480
ggacgtcatg tcggcatctg aggcagactc taccgaggag agcggtcctc gagggatagc 540
gactagcgaa nggtcttatt atagcagacg gctccttaga ctaggattat atactttttg 600
ggggtgggtg tatctggtac 620

<210> 2983
<211> 563
<212> DNA
<213> Glycine max

<400> 2983

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aacaagtttt ccacatccac aatgcgcgca taaaccaccc atccctgtt gccacctcc 120
atctgagctc acgtactccc acgtagctca tctctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcgaaacaa cattcaaaca gcacaagcta 240
tcacaaccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaatcac 300
agcttttctc acttaaagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360
atcgactcca aaattttact ggaagtctat agtgcataag cctacatttt gaccgttggg 420
atctactagc gaacatccag aactcattct acattactct ttccacaacc agcaaataca 480
cggatttttc tgcacttgtg caaaattctg ctgcacaatt ttacagcaaa atctgcacaa 540
agagcatatt tcgaaaacca cac 563

<210> 2984
<211> 549
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2984

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ttcggttttt cacaggcatt ttttttttaa tttagataac agaatttcca acccaaaaaa 120
attgaagctt gtgaagatat gtcaatatct cgttacaaag tcaaaatctt aattatgatg 180
attaaaaaaa catttataaa caaaaaagat taagaaaaaa gtgggtatat ttactcttac 240

atagtagtca ttatttatat tctctttttt aatatatgca tttcacatat aagtaaaaaa 300
 aaaatctctt tcaatgatct caaactatcc tcctttatca agggatttaa ctcatatgat 360
 tgagtagtat gtataattaa gttgttataa actctttgac gtcaagagtt cgactctctc 420
 atttgaaaaa aattaatctc tttttacttt ttatttgatc ttcttaaccc ttgcctcatt 480
 caatnttttt tcataaattg tataanagaa tatataagat aaattggttt aaagataata 540
 aaagaaata 549

<210> 2985
 <211> 580
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2985

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 actgttttct taaaaaaaaa aagaactata agcataaata aaaatgtata aaagtgtgtg 180
 tgctgcaa at caaatcaatg aaagctaagt gcctaataaa aggcaagtat agggtaggaa 240
 tgaatagaaa aagtaaagggt ttatctatgg atgaatgctc tcctagaatc taagattttt 300
 aatccaagaa aaaccattat ttgttggcag cctaacctca ttacaagcct agaaagtcct 360
 tcagattcat tntgtgggggt tatttctcta tggtagaga tgatatgcaa aagttggggac 420
 ttgtgttagt tgtttataat ggaatgagcc taaacagttg agcttgagtg aaacaatgac 480
 tgcgagggct tggntgatga ttctttcctt gatatctgcc attctcacta gcttatttca 540
 gttgtgactc taatgcatat gttcctatct ttgaaaagct 580

<210> 2986
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 2986

tttaattaat aaaattaatt agaaaaataa ggattttttt tacgtaaagg ctatagatac 60
 aaagcttcac actaaaaaag aaacatctca actacgttga caaccctcct cctagagatc 120

acaagcaaag gcgtacaatt tattttctata aaaagaagaa atagataacc gacactacga 180
aaagaagttt tgtatgatgt ctattttaag atggttatcg gaaagctatc ctcgtttaag 240
tagaggcggc attttcgtaa acaattataa cttttgaaag acggtcattg cagaaccgtc 300
tttaaaacaa cttttcaaag atggtttttg ctaaaaccgt ccttgaaatt agatcctcat 360
cgtcgattat acaaagaaac cattgtgagt ggatctttat tatctcgtgg ttacaagcac 420
tctcgactc cattcctttc ctctcttc 448

<210> 2987
<211> 1116
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2987

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cctntatagc ccnncaccag cnatgtgatg attcatgcct attctccagt gancctatan 120
aatacttcag cgttggaaat ggaacaaccg gaagcctctc tgagaaaact tcaatttggg 180
catatacttt atttacacaa gacctttcta tttcaggtcg catatatatc tatccagaca 240
gctccgaaaa tctgaacacc ggtagaggt tccaagaaat tccaaatggg tcatcgactc 300
tggcacaacc gacagtcccg atttaagggg ccataaaata tccagtacgc ttctaaattg 360
aacaaccgca agcgtctccg agagaaatcc aaatggtcac taactatgtc aacacggaag 420
gccccgtatt cttggcgcat aagtattatc tgacaacgcc ttgtaaattt gaaccaaccg 480
gaaagcctct cgtagaaaat ccaaaatggg ccatgtactc tgttacaacg ggaagcgctg 540
atttcacgcc gactatatat atcatacaaa gctttgagca tttgtacaac acgaacgctc 600
tctcagaata ttttaacggt ctcatatact ttcgtccac ggatcgcccc gataatggcc 660
gccttactca tcttgggacg gctccgaaat gtagcatatt ctgagcgttt ctctagagat 720
attcaatagt gcgcatctc ctttcatcac cgaaacgcc catctcctgg ctcctacaa 780
atcttctcag atcgctctc aaattgtcat cactgagaag tcgttctcgg taaatattat 840
atatgcacaa tcaactgttg ctccacgaac gtctcgaatc cgatgcaact cactctcatt 900
cacgacctcc tctagacttg taccactcac tatctctcgc tcacatcttc acaatctgga 960
atataatcat ggactcaccg ctgatgccgt cgactacatg cagtctacgt atatactcga 1020

ttcttcgtga caatgtattc gatctaatat atcttcgtaa caacaccnca gaattgctac 1080
 tgactcatct gagctagcgt tacgctcgat caacgt 1116

<210> 2988
 <211> 489
 <212> DNA
 <213> Glycine max

<400> 2988

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 tgattctctc tcgtccattg gagaacgtgt gtctaaatct gatcatgttg acattgttct 180
 tgatgggtta ccagatgagt ttgagttgct gtcacttttg tgagtggcaa gtttgagtgc 240
 tgtctattga tgaagtcgca actctcctat tggctcatga gactcgaatc gcttgcaaga 300
 aatcacttgc ctcatctgga gcttccatta atctctctga aggagcagaa cctaatttta 360
 gccaaattcg gcgcaccagg attctcatcc tcaagcctat gttgctcaag gttctagctc 420
 atcgccgcat tttggcatga actataataa ttacaatggg ggaaataggt acattaaccc 480
 tggcgctgg 489

<210> 2989
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 2989

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 actgctcttc cttcccgga tgcttctttt catatccgcc tgagtgggct tataacctaa 120
 accatacttc ccaccatttc ctttggcatt tatcatgcta gttatgccgc cgttgtcctt 180
 gcctaaaccc attccgggtt cgtaaccgtt ccctaacata actcgggcca tcattactgc 240
 tgcacgggac aggcaaggct gccagagaa ggagtccacg gaggaaatgc tgaccacctc 300
 aaaagactgg aaagcggttt ctaacgattc ttctgcggct tccacataag gcatagaaga 360
 tgggcagctc accaagatgt ctttctcgcc tgacacgatg accaagt 407

<210> 2990
 <211> 567
 <212> DNA
 <213> Glycine max

<400> 2990

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taaggaggaa atgtgtatgt atgtatatag tcaaagtcca attaattgacc gcaaatttaa 120
actgtgtaag ccgttccatc taaggaagaa ggagaaatca tttgtattca tggagaaaac 180
tcaacggatt ttcttaacct ccaagcctct tcgagaagga aaaactgttt tcttaaagct 240
ctatatataa ggacgaagag atgttgaaac tcattgctag aaaggaaatt acgatataaa 300
tgatatagat caagaaattg tattgcacat atatatctta agcttttgat tcttgtatgt 360
tacgccaac tgtccaagac tttggagagc caaatccact tagccttaga gtgtcgataa 420
agatatatca agggagactt gttaatggtg taacattgtg gctttttcat aatgtatgtt 480
aagtgtttta ttaacaccac acgaggaatt aaatttaaatt ttatattatt taatgaacta 540
cttaataaaa tagagtatgt tgggtcat 567
```

<210> 2991
 <211> 935
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2991

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ccgcgacctc gagaaactca agatagttgg agtatggggg acccctcaca agaggtacta 180
tgaggcggtc ttgccattgt gtcccacaag ttatccacat cctcgatgcg cgcataaaaa 240
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tatatctata agctccgggt tcacatcaat agcttctagc tttctcaacc tacaatcact 360
tcatccttct aacaccgcat gctatcccag ctaaataaag acgggcgaag gcgaaaaact 420
atgccccctag accaacctaa tgacagcttt tttttatttg ggacgccaga ttgcaattct 480
ttaaatocct ttgatgcacc gaggtgacga ctgcaacatg ctacaggggg taaatacaac 540
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aacatcttac attgaggccc gggggaacta ctatcctaaa tgcagaacgc gtattagata 600
 actggttcct ctaacacccat attcacgggt atattctgtt cttgtgcaag attcagtgtg 660
 tccacgttaa atcgaaactg ctcaaatagc atatgtagag aaccaccata ttcctcacct 720
 aatattgtcc taacttagat gtacaagtgc gccctctggt attttgatag gctttaacaa 780
 gataaagggtg ctctcagga accctaagac aggggtttta atcccgagtc caaggggttc 840
 ctcgatttaa gagggttgat atgaagaaaa acttgcagcc tttccctcgc ccatcttttc 900
 tttttgcac tgtcgcccg atttatacta aatcc 935

<210> 2992
 <211> 1234
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2992

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 ctcanncnt atcntntcac ggcncactgg gagttgattg ntcgtgncta ctctcatcgc 180
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 cntactccga tgtcaaaaca acgtctacct agatantgct cttgcacaga tcttgatctc 360
 aggaggacat agctactcag tctcctaata caccgaagtc gcatacatgt atactaatct 420
 aacggcggac cctcaaatca ataccagtnc gacacgatta caaaacgtct aatagtngcg 480
 ccttagaaat caattctaca ctatgcatac ccgttgatcc tcggttatcc tagccgtaat 540
 atatgtactt accaggagct ttatctagac aacaccgta tataatccac ctgtcgcccc 600
 gaaaattgct tcagagacta acataaacca aatgtccgt cggctgacgt aattatacgc 660
 caccctattc agacataccg ttcaaaaaag cttttcgaag atagacatta ctttaaaagc 720
 attaatacata taacaacccg actgtctcac cactaatagc gtacgtcaca ctacagagca 780
 cagcgtaca tttagtaggt gtgttgaaca tgaacaacac tctccgactt taattttcag 840
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acagcgtcgt atcaacaaat acaacacaag acaaacactc tctctctcta ttcacttaag 1140
ctgtctaata acgcgggtttt tctcccatat actgtcatca tagataataa tcgcgctctc 1200
ttcaccttac atctctgtct gcacactaaa tacc 1234

<210> 2993
<211> 482
<212> DNA
<213> Glycine max

<400> 2993

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aacaagtttt ccacatccac aatgcgcgca taaaccacc atcccctgtt gccaccttc 120
atctgagctc acgtactccc acgtagecca tatactcgtt tctctcaaca ccgggtcccc 180
atcaatcctt tcaagcttcc acaacattca agcaaaacaa cattcaaaca gcacaagcta 240
tcacagccaa acaaaacagg gcaaaggcag aaaactctgc caaaacacca accaaatcac 300
agcttttctc acttaaagac cccagtaaca attctttcga tccaattcgt taaccgttgg 360
atcgactcca aaattctact ggaggcttat agtacattat cctacattgt gacccgtggg 420
atctactagc aaacatccag aacgcatttt acattactct tttcacaacc agcaaatata 480
tg 482

<210> 2994
<211> 489
<212> DNA
<213> Glycine max

<400> 2994

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ggcgctccc ctctcctctt ctcccttgcc ttccgctgca tctccatggg gtaaaatcac 120
cattgaagga cctcattgaa gctcaaagat ccagcctcca tagaagcccc tcaagcaagc 180
ttccatcaaa agcccttggc aacaagccta gctttgtact tgttgactga accattagga 240
ttctccttta ctcttaacat tgacttactc caataacatt tctaaaggat aggagataaa 300

ccagagacca agtggattct tgattaaagt tgcattattca gtttgcattg ctgagcgcta 360
 agagggatta ttcaaagcta ctttagtaga ctttaggttca agatgagcaa ggagaacggt 420
 aggggttaatt ctatgtttga caattctaga ttttgcacga gtgcaaattg gatgggtatc 480
 tgtgggtct 489

<210> 2995
 <211> 625
 <212> DNA
 <213> Glycine max

<400> 2995

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 aatacctcaa attcaaagga gaggggtctgt tcctacagca tcaacattgt cgtaagaagc 120
 aattagcaaa ctatgcaggt catacttcat agtaacatat ttcataaagc taaaagcatg 180
 catggcaata tcaagaaatt ggcctacca gacatattat gcgaaaacc ttttcttccc 240
 gtaataacca agattaaatt aaaaaaaaa aaacgaaata gcttgattgt tggattaatg 300
 acacgatttt gatcttatgt ttcataagct ttcttaagac atccgtcctt tcgagcataa 360
 tcatatacaa cgttttttca acttcttata tgttggactc actcagggtg atgctttctt 420
 taagaagtta tatcaacaga agaactccga catattgatt ttttaatttg aagggtaaaa 480
 tatattttatt ttcccaatga atttccttat tatagctaaa aataaaataa tacatacgta 540
 atattgttca ctaacttatt tttataagaa ttgataagcc tcttaaaaaa tgataaatag 600
 aaaagaacga tttaaatggg ctttg 625

<210> 2996
 <211> 528
 <212> DNA
 <213> Glycine max

<400> 2996

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 gattgagcca ttcattttct aggggtttga atttttttcg ttgttggggt aatttgtggt 180
 atttgttgct tttggtttag ttgcttatgt tttggttgat ttttcatttt cctttgtaga 240

acaggaagat gacaaggacc ggaagccgca acccggacaa gcttcaagca cagatgctgt 300
tactgagggg atgttttttt ttttttttta aattataata tgtagtgtt cctgttatgg 360
gtcaacattg gagtatgtag ggttctattt tgttgcatgg taatggtagg attaaatggg 420
caacaaaggt atggatgggt tgaaacttga aaagcaagct tcttgctagt agggatttta 480
gtgatatatt gtgactgctc caagaaaggg ctattaaact gatctata 528

<210> 2997
<211> 507
<212> DNA
<213> Glycine max

<400> 2997

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tgcatatagc cgccgggaac atgcaatgat tgagactgga ctctattaca tgttcagaaa 180
tggctcttca cggtagatct ttttttaact taatcactcg gatcaggtaa ccggtaaaca 240
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gcccaaggat tttaagactt caccctagaa tccacccgaa gtttaagggg tttcctacaa 360
gcatttctta tgaagaaata tatactttta acaggaaata gaaaagtatg tgaatgtgct 420
tttttaaaaa aaaaaaata ataaaaattt gtgacattag actacgttga ctgttgacat 480
ataccgaagc aagatcgaca taaaatc 507

<210> 2998
<211> 503
<212> DNA
<213> Glycine max

<400> 2998

tgtaccaata taagaaacat cttcttcgac cttggtgatt cttgactcca tctcattgaa 60
gcgcatgtcc acttgtaatt ccaaggtatt aaacctttca ccaacaaagg tttgaagacc 120
atcgaacctt tccaaaatct tttgatgaag agaggaatct tctccaccat gtccttcttc 180
atcaacaggc cgagcaccct ttttcaccta agagccatca tgctcttttt gataacccaa 240
ggatgcaatg acagcagcac ctattagaaa ggatctcttg attggaacat aaggttcaga 300

atcaagaggg acgttaaagt gttgaaggaa gagggtagt agatgtggat atggcaatgg 360
 agcatttaac cacaatgcct tatgcatgag atatcggaact aagtgtgccc aatcaatttg 420
 tcggccttta tgaagagccc acataacaat aagatcttct tcaaaaacct gtgcaagggtg 480
 tgaagatctt ggaagcaaga tac 503

<210> 2999
 <211> 488
 <212> DNA
 <213> Glycine max

<400> 2999

tgaagctca aaagaagact caaagtgtcc ttggctgcat actgcaatga aaaagtcaac 60
 atgctcacag gatgaagaga aaaaattgaa gccatgagaa gtaataaaaa attaaaggac 120
 aagaagaatg ttgcacacat gaagatttgc acaatgaaca tgacatgaag aataatattg 180
 ttgcaacaga cttagagagt aatttcatca acatgatgag ttcatctaa acattgtatc 240
 tagagttcaa gaaattcaat tgagttgttc ttggtgtcta tgtaaactct gaagaaatat 300
 cttcaagttt catgaacaag tcgtgggttg atactatcta gatcatggat aaaattaagc 360
 ctgaagttct agatgctgtg ttgcctgggc aacttaatat gtgtgcatta atttgaagat 420
 tccttgagct attaaagtgc atttgagagg atctcaatgg aagggaacc tatgataaat 480
 atttcatg 488

<210> 3000
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 3000

tgtttacccc atgttgaatt tgcttacaat agagttgttc ataatgccac taattgttct 60
 ctttttgaag ttgtttatgg ttttaaccca ctaactcttc ttgatctttt gcctatgcct 120
 aatgtttctg tttttaagca taaagaaggt caagcaaagg cggactatgt gaagaagctt 180
 catgagagag tcaaagatca aattgagagg aaaaataaaa gctatgctaa acaagccaac 240
 aaagggagaa agaaggttgt cttctaacce ggagattggg tttgggtgca catgagaaaa 300
 gaaaggtttc caggacaaat aaaatctaag cttcaaccaa ggggagatgg accatttcaa 360

gtgcttgaaa gaatcaatga caatgcttac aaagttgagc tgcccgggtga gtataatgtt 420
aattccacct 430

<210> 3001
<211> 547
<212> DNA
<213> Glycine max

<400> 3001

tgcgattttt ttatagaaaa ttataagtta gaactacatc tttttattaa taaatatttt 60
aataccatat taaacaattt taattattga aaaaataatt attttttaat ataataaata 120
tttctatttg aatttctttc tttttattta tctaaataat aatgataata ataataataa 180
taataataat aataataata ataatagtaa ttttgattat aaatgatatt ttttttcaag 240
tgatataattt atttatataa attttataat tcaagcgata tttttttgta caaattaata 300
tgagtaaaat ttaatttata ttaacatagt ttgaaggatt tacagaccct ctgtgttttt 360
catctaatat atttgcataa ttttaggaaa ctcttggttc aaactttaat ttcatttata 420
gatactcaag ttatatattgc tcttgatagg gaaacataca tgttggacat tttttttttt 480
aaaatgcatc ctctgataa tcaacttcta actggaaaaa aaaaaagcca aataaatatc 540
tttttttt 547

<210> 3002
<211> 61
<212> DNA
<213> Glycine max

<400> 3002

tggagaggat gcttcaatgg aggaaaagaa agagggagag atatagaggg gggggggggg 60
g 61

<210> 3003
<211> 207
<212> DNA
<213> Glycine max

<400> 3003

catgccctac tttctagaat ggcaatggtc ttgcatggta tcaagagtgg cgcacctcac 60

tccatattat atcttttgag cattatgcga cgccacgtgt gtgtgctaag actattgctt 120
catatggcag aagtctttaa tctaatacggg aactaccta tcgaactcgg ttacacaagt 180
ggtttctggc tagcaaagct atgactc 207

<210> 3004
<211> 229
<212> DNA
<213> Glycine max

<400> 3004

tttactctg atgtccgatt caggcgcaga atatatcgag aagttcgaaa atgaacaaag 60
gaagctcttg agcactatca atgatcataa cttttaactc ggatgtccga ttacgcgca 120
taatatatcc acacatatca aattgaacaa tggaagctct tgagaaattc aaacggtcat 180
aactatttac tcggagggcc gagtcagtct cactatatat tgagaccct 229

<210> 3005
<211> 528
<212> DNA
<213> Glycine max

<400> 3005

gaccttgaaa ctcagcttgt aaagtctctc gctcttagtg tctagaagac aaagaaggaa 60
taatcgtcta gaccatcatt aagaggtccg tccaaagcac caagtgtagc tagctcctct 120
aatgaagact tcaaaggaca atctgatgag gacgacgagc tagccttcat ctcgagaaaa 180
atctgaaaga tgtggaagaa caaggggtgga tctaaataga agaacttctc caagaagggtg 240
ttcaatgaaa agaaagacaa agataaaagc tccatcattg ctatgagtgc aaaaagcctg 300
aacacttcaa gtctaagtgc ccagatctgg agaagtccaa gggaaagcat gaataatata 360
attccaaggg taagaaaagc ctcagtagca cctgggagga cctggatggc acctcgtcca 420
ataaaggaga ggaggaagcc aacctatata taatcgctgc tacaacctct gaggaatctg 480
aatcataaca aacttatcct gaactactct ctaacttggt gattcttt 528

<210> 3006
<211> 525
<212> DNA
<213> Glycine max

<400> 3006

ttgagcaaat tgaaatgaca ataactttat acacggatgt ccggttgagt cccgtaagat 60
atcgagacgc tcaaaattta gatccgaagc tctgagaaaa ttgaattgac aataacttta 120
tacacggatg tccggttgag tctgttaata tatcgagacg ctgcaaattg aaaacggaag 180
ctcgtaggaa attcaaacga caataacttt ttactcggat gttcgattga atcgggtaat 240
atatcgagac gctcaaaatt gagactagaa gctctgagca aattgaaatg acaataactt 300
tatacacgga tgtccggttg agtcccgtaa tataatcgaga cgctccaaat tgagaacgga 360
aactcttagg aaattcaaac gacaataact ctttactcgg atgcccgaca gagtgtcgta 420
atatatcgag agacgtcca tattgaaaac ggaagctcgt atcaaattca aacgacaata 480
actttttact cggatgtctg attgagtcct gtaatatatc gagac 525

<210> 3007

<211> 480

<212> DNA

<213> Glycine max

<400> 3007

tgctacaaga aaggaaaaga aaacactggt gcagatgctt tatctagagt gtagggttct 60
gaattaatgg tgattgcagt ttocatcatt tccagtgagt tgatggctga aattcaaggt 120
agctgggaga tggatccaca tctatccgag cttatacctc aattgcatca aggggtgaag 180
cctaaaatctc catatatgtg gattgagggg caattaacca gaaggggtag aattgtggta 240
ggccaggcca aggactttgt tttctctacg aacgtagtag gcaatgagcc accagatggg 300
ggtggcggtg gtcaaacacg agtctctttt aaagaaaagg ctatggcaaa tagggaagca 360
ctacctcagc gacaaaaagt ggacctatca aggaaaaatt ggccaaaata gtctttgagg 420
atgataatca cttgaagcct attgttcata ttgatgattc tgttttcaat ggcttatatg 480

<210> 3008

<211> 491

<212> DNA

<213> Glycine max

<400> 3008

ctataaaact aagcttatgc tgcaacattt acatagacct cctcaacctc agcagcaaaa 60

tcaaccacag cagaacaatt atgacctctc cagcaacaga tacaaccctg gatgaaggaa 120
tcaccctaac ctcaaattgt ccagccctca gcaacaacaa cagcagcctg ctcttctctt 180
ccaaaatgct gctggcccaa gcagaccata cattctcca ccaatccaac aacagcaaca 240
acctcagaaa cagccaacag ttgaggcccc tccacaacct tccctogaag aacttgtgag 300
gaaaatgact atgcagaaca tgcagtttca gcaagagacc agagcttcca ttcagagctt 360
gactaatcag atgggacaat tagctacaca attgaatcaa caacagtccc agaattctga 420
caagctacct tctcaagctg tccaaaatcc caaaaatgtc agtgccattt cattgaggtc 480
gggaaagcag t 491

<210> 3009
<211> 474
<212> DNA
<213> Glycine max

<400> 3009
tgaaggactg taaatattgc ctatgtttgc ctccccttgg acttttgcca cgtctgaagg 60
agctttcaat tgaagggttt gatgggattg tgagtattaa tgctgatttt ttcgggagtc 120
gctcttcttc atttgcattc ttggaaacac tggagtcttg ccagatgaag gaatgggaag 180
aatgggaatg taaaggtgtg acaggtgctt ttccacgtct tcaacgtctt tttatagtgc 240
gttgtcccaa gctgaaaggg ttgctgccc ttggactttt gccatttctg aaggagcttt 300
caattaaagg gcttgatggg attgtgagta ttaatgtga ttttttcggg agtagctctt 360
gttcatttac atccttgga tctttgaagt tctccgatat gaaggaatgg gaagaatggg 420
aatgtaaagg tgtgacaagt gctttttcac gtcttcaacg tctttctatg gagt 474

<210> 3010
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3010

tcttctgctg gcaacaatgg atttcaactt gcaagtagtg cagacaacag tacaccaaaa 60
tataaaagac cgctgatga tacttcatcc ccctttggat tatctgaaag tgaagaatct 120

ggagcggggg aaaacaaaat aaaagaaaaa gctgtgaatg gaagtgactt tgctatggcc 180
 gcagataagg ctggggcttc tgtgtttcaa atgaggaaga ataagatatc aactgatgaa 240
 tctggagata gtgtgcatag acaaggaaga agtggaagga atttatcatt agtaaggcca 300
 gacctccctt ctgggagggg gaagtcagag aatgtaccaa caatgaagcc agtacaagac 360
 atgaagccta atgataagag taaaacgtaa gctggattta ttnttagatc tagttcatcc 420
 tttctacttc tattttccaa aactgtcctc ata 453

<210> 3011
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 3011

tctgaaatag tgaattttat cagtaacgat gaggacaaac aaattataaa ttatgtagta 60
 atgatctata actcaaataa actaaaaaga attgtcttga attgcttaca tgccattctt 120
 cactgttttg acatctttat agaagcactg atagaattac acggcatttc ccataaaac 180
 aaatacatgg aaaatcatta aacaaacaaa aatagaaata acaactcatg gatgcttttg 240
 ttagcaaata gaacagagac aaacaacaaa cagtggcaaa tatttaaatt tacaataaat 300
 tactcattac caagacactc tcagcagtca actgacaaga gatataagga gttgagtcaa 360
 tctgatggaa catttagacg taaaagctt cacggcccaa tgatacaggc acccgaaaaa 420
 at 422

<210> 3012
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 3012

ttgagaaaat tcaacaacaa taaattttta ctcggatgtc tgattgagtc atgtaatatt 60
 tcaagacgct cgaaattgaa taccgaagct ctgagcaaat tcaaaccaca attacttttt 120
 actcggatgt ctgaatgagt cccgtaatat atcgacacgc tcgaaaatga atgtttatgc 180
 tctgagcaaa ttcaaacgac aataactttt tactcggatg tctgattaag tctcgtaata 240
 tatcgagacg ctcgaaattg aataactaaag ctctgagcaa attcaaacga caataacttt 300

ttactcgggtt gtctgagtga gtcccgtaat atatcgagac gctcaaaatt gaatgtttat 360
gctctgagca aattcaaacg acaataactc ttactcggga cgtgtgactg agtcccctaa 420
tatatcgcca cgctcgaaat agagtcttga tgctctgagc aaaatcaaac gac 473

<210> 3013
<211> 549
<212> DNA
<213> Glycine max

<400> 3013

ttcattgttg cacttttctg ttacaccaat cttctttgt atgatgcaat caaattttat 60
aatctctaca ggctgatatt actaatcaag gaaaaataga cattccttgg tttctaattt 120
cattcatttg ttagaagttt ttcccaatat ctatgggggt gtttgttcca aggtttctaa 180
ttacattcct tggattctta tttttggtgg cattactatg agcaagaact ccattctctg 240
gtattttagg aaaaaaaaaac catttgctta gtgtaccgtc cagatatgtc ttgactaacc 300
atgatgtggc cttttatgaa gtcacatctg tgttcagagc ttcaaggact gtgtaccatg 360
gtactcggat ataactcagt caatcctgat gtgccccct atcaggctcc attgcctctg 420
ttgagtgaac agcttggggc tttgcatcat ctggatatag aatccaacat gttgtactca 480
acctcaaccc atcccgttga cattcacttt ataccctca gctgataaa tgttctgccc 540
tataaaaaa 549

<210> 3014
<211> 590
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3014

gacactataa aactcagctt ctacaagtgt tctcgagtct tcttccctca aagctttggt 60
aagaggctct tgatcttcat tctcttgatt cctcaccatt tttgtgcaaa actctcattc 120
ttggttccaa atttctttct tcatcctttg aagcttggga gcatccagat ctgagttctt 180
ggttcatcca agcattttca tgcaagcttc atcaaggtag aggggtcttt ccacttcttg 240
aacctaacc ttgttgtctt tggaagctag cttcattgc ctgttgtttt gatgttcaaa 300
tattcgtagc tattgtcttg gctggaactg gaggatacat tactttctat tnttattttt 360

ttgaaat ttt aagggttaaaa atgattttctt tgggcgtcaa aacttatggt tagccttta 420
 attcacttaa atcggagttt aaggatattt tgtacgatcg aatctgtcac gaaatttaaa 480
 tgggtgcgtat gactatatgg aattttttcc ctaaagattt gacttaaaaa tgagtttgct 540
 aggtgtgaaa atatagggtta gcatgctaaa attatgaaaa atcgattttc 590

<210> 3015
 <211> 552
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3015

tccatcaata tgtgtgcatt ttttgaactt tgatcttttg aaaattaaac ttcacatttc 60
 agagctcttt tagagcacia aatttcgngc tcttctcttc ctctcccttc attcatctgc 120
 ttcttctctc cagctcttat acatgacctc ttatggtggg gagcttcttc tagactcatc 180
 ttctccttga agtgcacctc ctctctctct cttccttctc cattccgctg ccattcatct 240
 tccaagaagc aaaggaatcc atagatgaag aagatcctag gcctacaagc tccaatggag 300
 cttacatcat gtggtatcaa gagcatcttc atctaggaga tgctcttttt cttcctctat 360
 ctctttgctc tatgaagtct ctttaattcc ttggtcttca tcttattctc catgtatata 420
 ctacattgtc ttgtgggttg gcgctgctta gagaatattt cgaaaaaaat aaaccaatta 480
 aatcttaaat ctacacctgg tttttgcatt tctattgggc agaatttgta gatctactct 540
 tgaatcatgt tt 552

<210> 3016
 <211> 562
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3016

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 gtctcgataa aaacgcttcc cagccttcgt taaccgctgg atcttctcaa aatttgggtct 120
 gcagcttcac aagacaattt ttcattgatct taccgttggg atctttgaga agatgtcttg 180
 agtatgcgcg aagtttccat tcccagagagc atttctcact tgtgtgtttt gagccttgta 240

gtccaagtag cttaggaaaa atgtcatttc ttctccttct ttcttccaaa accatttcca 300
acattctaag ctctttctcc atcaccacaca gccaccatta tccaccacat accaccattg 360
ttctccgtta agaccccaca cggagaggaa cccttcaacc gaagtgaat ctttcaactt 420
gcctcgcggt ttcggtagaa aacaaaaacc taatctgacc tttcattttc tttgaggtaa 480
ccatgcttct atgcttggtc cttgtttgat tcagcttgtc tttgcatctt ttctgactnt 540
ggaaccgtca ttgcatgttt ta 562

<210> 3017
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3017

attgaaccct ttganctcgn gatctctgag tcacctgcgg catgcaagct ggctcggtag 60
tgaagaaggc ttctctatta tatggaggta aatactatgg tcatttggcc cacattcttg 120
tggggacggc gacaaaagat aagactcctc tcagccgaat gacatgaact cacaagatga 180
aggaaaagcg ggatgaaaac aatgatgcat gtaagtttat tctatgactt tatcaatntc 240
aattttatga tgcaataagt gaaagaatgg tatttctttt ttaaataattg caagtaatat 300
ataatttggt tggttctatt tttgcgctca cacaattctt tgcttgtagc aagaaagata 360
aagatccctt actcaagctg aaatatctat ttgaactcga canagtgcac atggtaaaaa 420
cccaatggat gtagaaacaa atgatgcatt tn 452

<210> 3018
<211> 284
<212> DNA
<213> Glycine max
<400> 3018

tcaggactaa aacagcattt taactaaaac aaaatatata aaaaaaaaaa cggcgtaaat 60
aatcaaatth gccctaaaa gtgtcatggg atgacaaatt atttccggaa agatggaaaa 120
tacaaattta gtcccaaaat gtggaaaaaa aaattgacaa attaataattc aagaaccaat 180
tccacaataa gttatattct tcaaggatca attcgaattt gtcattaaat tctctagaga 240

actaatcaca tcttcaggac ggagtttagca tcaccccccc cccc 284

<210> 3019
<211> 260
<212> DNA
<213> Glycine max

<400> 3019

taatgtaatc acttactaac attgcatttt gaaaaccccc cttcaagagg taaggaatag 60
tggagcaaca tatgtcaggc agtaaatcca gacacatctt gctaccgaag ttcaaataga 120
tcctcgcccc ccaaaaaact ttaacattca agatatcaag tacaaaattg catgaaggca 180
tgaatgaata acacagggtg caagtgatca aaaatatatt tcaatacctt cctcacaatc 240
gttaattttg gatttagaac 260

<210> 3020
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3020

ntacaacat gaacattgtc taattcggtc tttattaaag gaatcattaa attatttata 60
taatattttt taaacactgt tttttttatt tcttttatta ctatcattca ttatacgttt 120
tcacttttta ataaaaaaaa aacatatggt tataaaatat tatgcaatta acatgtcttt 180
ggttaagaag aagattgagt aggcacctat tttagatatg tggtgacaaa aaatatgtct 240
ttgcttcttg gtgattgagt aggcacctat ttgtaattta ctgtgtgtga attgtgagtt 300
aatgattaat gcttgtggtg agtggagaaa aagcaataag aaaagggggg gaacaaaaac 360
agctgtccgg cgtacgggta cgggcgtatt agacagc 397

<210> 3021
<211> 461
<212> DNA
<213> Glycine max

<400> 3021

agcttcacga gctgcaatag aaaagggttg atttctgagt catgtgttct ctgtaactct 60
cttggttatt aaaatgagtt ttaatttgat gtcttttgta gatgacaaga accgttgata 120

tagaacataa tatggagatt attaaagaac ttgaaagttt gagtggatgc acgctatctt 180
 ataaggccgt tggcggtaga aatggctaca aagttgcatt ggagacattg gataaacatc 240
 agtttgagaa cccatgggag cggcttggtt tatttatcaa ggaagacttc accacagatc 300
 ttgatgagga ggttttgaac ggaggctttg aagaagggga aatttttaac tgaatgcacc 360
 ttcatgcagt tctgccagct ctaagtgttt atatcccttt tagacatgga aacagacaat 420
 tattgtaaat gcacatattg tttggaatca agtctttcga c 461

<210> 3022
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 3022

taacaatatt gcatagtaat tttgtaaaaa aatacaatat tgcataatag tttaaatttt 60
 gctaagtttt acaagtgaac aaaatagggtt aaatttcact tttgattctt tattttttta 120
 ttttattcaa tttgatctct tataattttta aaaatttatt ttagtcattt atatttataa 180
 gtagtttgaa atgttccttt tgtagtcta gagttaacca tggtagtaat tcaaagatat 240
 ttcactacaa acaatattgt ttatgagtgt aatctatatt ttataatcat tagtaaagat 300
 aattatccat tctgatatac acattactta ttcttaaatt atcccttaat atatataatt 360
 a 361

<210> 3023
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3023

tcgaatgtct gattgagccc cgaacatata gagacgctcn gaaatgaatg gtgaaccttt 60
 gagctaattc aaacgacaat aacatttttc tcggatgtct ggatgagtcc cgtagcataa 120
 tcagacgctc gaaattgaat ggtgaacctc ttagctaatt caaacgacaa taactttttt 180
 cacggatgtc tgatagagtc ccgtaacata tcgagacgct cgaaattgaa tggatgaagct 240
 ctgagccaat tcaaacgaca ataactttnt tctcggatgt ctgatagagt cccgtaatat 300

atcgagacgc tcgaaattga atgttgaaac tcttagccaa ttcaaacaac aataactttt 360
tactcggatg tctgattg 378

<210> 3024
<211> 322
<212> DNA
<213> Glycine max

<400> 3024

tctacattca atttcgagcg tctcgatatg ttacgggact caatgatata tcccagtaaa 60
aagttgttgt cgcttgaatt ggctcacagc ttcaacattc aatttcgagc gtctcgttct 120
attacgagcg tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctgacag 180
cttcaacatt caatgtcgag cgtctcgata tgtaactgga ctcgatccga catgagcagca 240
aaaagttatt gtcgtttgaa ttgtctcaaa gcttcgacat tcaatgacga gcctctcgat 300
atattacggg actcaatcag ac 322

<210> 3025
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3025

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tctcttgagg gaagctctta gatgcccttt agatggctctt cggaaaggac aagtgagtgc 120
taagttttgg attaaacatt ttatgctgat atcagtgtctg aagtaatgta tttatatttg 180
ttattctttt aaattgtagg cactgaataa tctaggaggat gtctatgtag actgtgataa 240
actggacctt gctgctgact gctacatgaa tgcactcaac atcaagcata cagcagcaca 300
tcaggggttg gcacgtgtat atcatcttaa aaatctccgg aaagcagcat atgatgagat 360
gacaaagcta atagaaaagg ctggagtaa tgcatacagct tatgagaaac gttcagaata 420
ttgcgaccgt gacatggcaa agagtgatct tagtatggca tcacaat 467

<210> 3026
<211> 366
<212> DNA
<213> Glycine max

<400> 3026

ggaatgaatt tgttttctag caaaacaaat tattatacct atagttcata ttgctaaatg 60
gaccaatcta agttttgtgc ttttatttgt tttttgctta gctagtctct tcttaagtaa 120
tctcccttgt ttttcttgaa caataggtgg cagaacgtaa caatgatcct caattggcag 180
acttcattga gagcgagttc ttgtatgagc aggtaaaact tgcagttgaa ttcatagtat 240
ggttggaatt cataagatat aagactcctt gaccattgta tgtaatacaa tactctgaac 300
tctttacgtt ctaaaataat tgggtgtcttt tacacggatc aagaaaataa taataaataa 360
atgaat 366

<210> 3027

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3027

tactttctga cagacatgat tacagaattt atattttcat attggtaaatt ttgatctgta 60
aacctttata ctttataaaa tatgcaaata tagtcttctt tttctaagaa ttcatcatgg 120
tttattagag ttaaaaaaaaa aaagagtaaa tgcataatata ttctaagct tgaaaatcac 180
attattaata aaattacaag atttcaatta caattatggt cggtgagata tttcagtaag 240
tttctagtat tttttattag ctgaaaaaat tatttgacta ttcgataaat aaaccatntt 300
taatagttct taacattttt tgaaacatta tttagaataa ttttttttaa aacgttaatg 360
tttaactttt tatatnnttt tattnttatt tttgatatat ttattca 407

<210> 3028

<211> 378

<212> DNA

<213> Glycine max

<400> 3028

tcaaggaaca ttcaaaccac gtgtattttac cccaaggtct acactccaaa gagtccttta 60
gagcctctat ctctgattc aggttcaacc cataaaacat tttatcatgc agactctatc 120
tatgaaatat acaaaaatata cgactcctca attattctca aaataatttt aacttgctgt 180

gcctcaaagt aattaaactc gtcaggttcc cacaatgggt cctatcacao tactcgttgt 240
 gtattaactc gtcgccctta aaaagtctta caattgtgtg attatacgat tcatagctca 300
 caactcaatg cacataacat ctcaatacac atgtgtgata tcataattta acacatactc 360
 aacttgtcac ttgcacat 378

<210> 3029
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3029

ctcatttagt ggatttcagg gttgagaaat gaaaatgaga atggggtaaa tttggagcaa 60
 actctcacct cacacaagtc tataacccta atctaaactt tctcaaactg gttttacgcc 120
 taaaattcca ccaaatacaa atttgactcc tcaacaccca atttacccta gaaatggctc 180
 ttgccttcac tttggtcatt cattntcctc ctttgtacag cccaagcttt cccgcagtcc 240
 taaatgaaat ttcaaactgg gatttactca ctctaaccct ccattaccac taaatccaga 300
 attggctttt caaatcctca nagcatcata cttttccact catatcacta cattctcact 360
 ttttaaccct agggtaattc tacccttcac ctcta 395

<210> 3030
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3030

ttcatctagt tctaccaaata ataataaggt gtctagctct gatggttgaa taaaatacgt 60
 aagttcttat taaccctcta gcatatatatt tttattctca tccataaaaa aataagaata 120
 gcttgatgta tatatactat taattaagaa tttttattat ttataactaat tatatgcaat 180
 tacttacaaa agttactttt tgacagaata tctcatatat tgaatctagt tggaacgatt 240
 caaaacacaa cttaaataatg ttttcaaatt atattgagat tgacttttaa aattaaaatc 300
 atcaaattaa ttttatgcca aaaaaattag tgagatggaa caagtcataa ttactctgaa 360
 aaagagtnga actttatagt tttaactttt 390

<210> 3031
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3031

agcttatgca cggaaaatgg tattatgaaa ttgtatatgc ccgaagaaaa caccatttct 60
 agtaaccatg cattangtac catgttcaat tatttttgtt tgggtggtgta tggttttttt 120
 ttttttaaaa atgggtttat gatcccatca tgggtggctc atgggtgccta acacatgcaa 180
 ctaagaatgt agtgtgaagt ttcacgcttc cccttttttg tttttgtttt gtagaggaaa 240
 acgcaaggat gagcaaacat gaaaacaaat ggtatgcaat tttgcagatc aaaaagcttg 300
 gtgaactcat atgcatgatg atgccatgac tcanaaatgt gaggctggaa tatgataacg 360
 gacaaatgca ggaacgatat gttcattatg atgttatgaa gagatgctta tgcgatgcat 420
 gatatgaatg 430

<210> 3032
 <211> 355
 <212> DNA
 <213> Glycine max

 <400> 3032

tgccacccag ctgcccagg cgagttatgt tgcttctctc agaaggcacc gccttctgga 60
 gaacttctctg gaaggtccaa gtgggctga ttggtatttg cacccttctt tttactaaac 120
 acacccctt gccttttttt gctgattcct tttccgtaac gttacgaaaa cttacgaatt 180
 acgtaatgat acttgtttcc tttccgtaat gttatggaac cttacggaat gcataatcat 240
 cccttttttt gccttccgga atgttacgga actttacgga ttgcgcacta aaacttcctt 300
 ttaacttcg gcatgtcaca gaacttcacg aattgtgcta caatgctttc ttttg 355

<210> 3033
 <211> 448
 <212> DNA
 <213> Glycine max

 <400> 3033

ggctgcagct ttaattcaat ctttgaagca tgacttacgc ctaggatatc taagtttggg 60

tttgaatgta aaaaggcatg aatattacga catgttcgag aggctgttgt tagaatttaa 120
 atttggctgc cccatgagga atactttgca tctaggtagc atggaaaata cctttcaacg 180
 gtatgtatat atgtgaatat atatagcatg aaaatgcctt gcataatata gcatgaagtg 240
 ccttacaaag tgttggatgg gtagcgtaaa agtggttttt taaaaaatat gtgtatttgt 300
 gagtaggtaa caaaagaagc cttccaaaaa aatgtgtgta tatatatagg atgtagcatg 360
 aacaggttcg tcaaaaaata tgtacatgga taggtgtcta aaatgctcac acaaaatttt 420
 atgtggcaat acgtatgtgt ataaaata 448

<210> 3034
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3034

ttgCGgattt ggtctttgcc agtgaaagga tcgatgtttt tctgaaaaaa ggcaaattta 60
 gtcacccagc ttggacgaat gagaaaactg gggcaaata gaaggggtgag gatgaaggag 120
 aagcccgtgc tgtgactgcc attccaatac agccaagttt cccaccaacc caacaatgtc 180
 attactcagc caataacaaa ccttctcctt acccatcgtc cagttatcca caaaagccat 240
 ccctaaaatc aaccacaaaag cctacctacc gcacttccaa tgacaaacac cacctttagc 300
 ataaacaaaa acaccaacca agaaatgaat tntgcagtga aaaagcctgt agaattc 357

<210> 3035
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3035

agctggtgct taatcattgt aatttcaaaa ttcagtgtta agatgaactg cccttctggt 60
 ctgcttggtg tatgggcaag attcatagat ttccttctaa gctttctcaa actgtatata 120
 attctccttt ggaattaata tgcagtgate tgcagggtcc ttaaataagag taaatctaca 180
 aaagctttct caaacagagc tttatttaaa atacgacaaa tgattatata tcaggacttg 240
 aatagagtaa atcaacaaaa gcactcataa taactcaagg tgattgaagg attaagagta 300

gaaagtaact agccttacct tgagagctga aaaggggtgcg ccgacaacca actttcttaa 360
aatcttatgc ggntagatga aggttcgaga ctagttatat atctctaacc ccctcacatc 420
aat 423

<210> 3036
<211> 355
<212> DNA
<213> Glycine max

<400> 3036

tttaggggta tttgactaat gagggtttat gggtagttta ttaattaggg tttagtgtta 60
cttaaccaat tagggtttat gggtatttga aaaattaagc tttagtgtta cttcaccagt 120
tagggtttag gattatgaga caatttataa ttacttgatt gatcactatt taggggtatt 180
tgaaatttgg gattcatagg ttacttgata aattggagtt tatgtgcgtt tatctaacta 240
gggttatgaa tacttgacta attagggttt agttttactt gatcgataat taagggttat 300
cgtacttgag taattaacgt ctttgggtac ttgacaaatt atgatttatg attac 355

<210> 3037
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3037

agcttcttat acctatgtaa ctttaaccta cttctgttcc taggcatttc agntgtgtca 60
agaaatctta tataattaaa aatttctgta ttggaagctg ggtgcaaaaa cttcattccc 120
atcccagata tgacttagtc tgtgacgtcc accaggacat attttatgtt atagtaatca 180
tactttactt ttttttacca tagaagtacc taaatgttac cataaggatt ctttgntagc 240
cagatataat aatacaatca tagtcagtag tgectctcag cctctgttaa tcaattatca 300
gaatgttagt ctaagtagcc tcgatggagg ttaataaaaa aatttataac tatcaacagg 360
gcttgggtgca tctagttttc ttactactg ccaataacag aatcttgaca tangcatgct 420
gagaaactgt gacatg 436

<210> 3038

<211> 328
 <212> DNA
 <213> Glycine max

<400> 3038

tcacgcattt ggggaacctc ctttctccac tcgctcatgc tcctcgcgtg actcgtcaac 60
 gacgataccc cttttctttc tttcactctc gaactcatca tcatcgatca tcgatcatcg 120
 atcatcgtca ccaccatctt caatctcttc tttcaggtac cctctctcaa caccacacaa 180
 cctaaccctc ttccttgatt tcttctcttg gcgtttcacc atcattaatc aaatttatgc 240
 tcatgtgtgt gtataactgt gtgagagagg gacatgatgt gcgcaatgaa gtagaaattg 300
 gatcggaatt ggaaagagag tttgtatt 328

<210> 3039
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3039

agcttgccac ccagctcgcc caggcgagca ggtgtgcttc ctccaaaagc aacagccttc 60
 tggaggaatc tttnggaggg cccaagtggg cctggttgct atttgcacct ctatttttac 120
 taaatacacc ccctttgccc tttntttgga gattcttttt tcgtanagtt acgaaaactt 180
 acggatttcg caacaatact tgttttcttt ccgtaatgtt acggaacctt gtggattaca 240
 taatcatccn cttttttgac ttacgaaatg ttacggaacc ttactaattg tgcaacgatg 300
 cttccttttg atttccggtg tgtcacggaa ccttacggat tgtgcatcaa taccttcttt 360
 tgatttctgg catgtcccgg aacttcacaa atttcccaat gatgggtgcc aagcacctca 420
 caaggaccaa acaaaaag 437

<210> 3040
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 3040

tagcccaatt caattcaatc tgaattgggt taagcaatag tacattcgct tagcgcatca 60
 tgttttagtgg ctaagcatgg tgcacttatg ctaagcccta ttctttgcag ccaaatcaat 120

ggtttaattg agctaagcgc aacgcatacg cactaagtga acttccttgc ggcctggata 180
 gcgctaagct agcaaccact cgctaagttc atgccccctt gtacacaggg tgcagtatat 240
 tcgctaagtc gactaagagt gcagcttaat gagagttgca ggttttctta tctgcacacg 300
 tcgcttagcg tgctgctttt cgctaagcgc agttttatgt gtaaaaaaaaa a 351

<210> 3041
 <211> 234
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3041

gcttgactga gtcacagag atatanattg tgaccatggg catgagttca atgaatgatc 60
 tctcatctat catctatctt tcaatctatc tttcaatata ttctttcatc tctttcaaca 120
 gatctttcta aantatttct cttcattttt ctaaaagggt ttttcaacac tttctcttcc 180
 cagaaaagtt ntttggtcaa aaacttgctg tattcatctt tttcattcac ttat 234

<210> 3042
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 3042

tgcccttggt ttagacatga ttggtacatg atttggtact tgtaggattc aatttgggca 60
 aaattggatg agggaaagag tgggttttga aatctgcact ttatgcagaa ttttgctggt 120
 gaaatgtgca gcagaatttt gtataagtgc agaaaaatac ttgtgcatgg ctggttggtga 180
 aaagggtagt acatatgggg ttgtggacat tttctatcat agcccatcgg tacaaatggt 240
 tacttttgta ctata 255

<210> 3043
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3043

aacacacttc aatcaaaatg ggtttgccc taggtgcaca agatatggaa tggaacaact 60

aatgacacca ctttgtttca attttagagt gtttagtttg gctaaataat ggcccaatcc 420
 ttgtaaagtt ggctaaccaa aaatat 446

<210> 3046
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3046

tgacacagct tttaaacttt caactttgct tttagctatt atgctttgtc aaccagctcg 60
 ggcatatggt cagttagata aaattcaatt taaccttgtg tttggattat gaatttcaaa 120
 atttcaagga atttgaattg ctttgatttt aattttcttc atttttcaaa tgctttgttt 180
 ggataaatca attcaaattt aattttcttc attttaaatt ctttgtttgg atagggtaat 240
 ttaattttct ccatatgcaa aattttaatt ttatatTTTA aatagatgaa attttaatat 300
 taaactttat agaaaataaa cacaatctaa ttntgaaata ttaattaaaa aatattttc 359

<210> 3047
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3047

atggacataa canacacatc cttattatgt agatcatgac agttgtgatg agntttaagg 60
 agatgaaagg aaaggggaatc aatatctaga acttacaatg gaaggcagtt aatcaagaaa 120
 aaaactatag acaaagcttc aaaacaaaaa taaaagggga aaatgcttga agaataaatg 180
 tcctggtcac atcaagcaga tcttgattct tttgctcatc aatgccattn ttgttgtggc 240
 atataaggac aagagtattg agatataata cctttttgtt gcaggtatnt ttgaaaatca 300
 tgagaaagat actcatttct agagtcagtg cacaagatcc tagtgcttgt gagaaattaa 360
 ttctcaacat atgccatcaa attccgaaac attgtgaaaa ccctaactat agagcaaa 418

<210> 3048
 <211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3048

tgnngaggatt gatgggggacc cgggtgttgag agaaacgatg atatgggcta cgtgggagta 60
 cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcgcgc attgtggatg 120
 tggaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180
 ccataatcct acaagcttga gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt 240
 gttgaçcaca gagtgggtact tggagatatg tcgtgggggt caggagacc 289

<210> 3049
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3049

agctntcttt ggctatctct aagactcana gcatgatagc acgcagatac taatgttgtc 60
 ttctacacc tttgtcaatc gcggccaaca aaccggttga cacatggaga tttacgtcat 120
 cttccgcgca gacaaatfff gtcaaactga tactggagtc acgtgacatg cggagatacc 180
 cgagtgggta tccgtaacaa cttttgctat ctctaagact cgaagcatga tagcaagctg 240
 agtgggtaaa cgcgagata caaatfffgc gccctttata attcatgaat gacaagctga 300
 gtgggtaaac gcatagatac agattctacg ccctttatca ttcaggaacg acaagctgag 360
 tgggtaaac tgcagataca gattctacgc cttttatcat ttaggaacga caagctgagt 420
 gggtaaacgc atagatacag actttgcgcc ctttatca 458

<210> 3050
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 3050

tctttgtttc agatgaggca gatgagtttg tagctacctc atgctgtgag ttttaagcca 60
 tctttctaat caagttttctg gcttcagtag gattcatgtc tccaagggct ccaccaccgg 120
 cagcatctat catactttctc tccatattac tgagtccttc ataaaaatat tggagaagaa 180
 gctgctccga aatctgatgg tgagggcaac tggcacatag ttttttaaat ctctcccagt 240

attcatatat gctctctcca ctgagttgtc taataacctga gatatccttc ctgatggccg 300
 aggtcctgga agcatggaaa ttttttttct aaaaatactc tcttaagggtt atcccagctc 360
 gtgatgaacc ttggagcaag gt 382

<210> 3051
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3051

tgatctcttt taaaatgtag atctaccaa atcctgagac taatttacat ggcacaaaa 60
 cactgtcaca aacaggcttt aatgacagaa atggattgcc taacccctg cctgagaaaa 120
 caactgccac atatagaata taactgtctc gtacatgcct ataaaaaaaa actgtcgtac 180
 acaaattatg actgcttttt atttttactt tttgacatga accttcaatt agaaatattt 240
 gcttaccaa aaaaaactct actttagaaa tatcttacac tttngcaatt aatgatttag 300
 ctatccctaa gattaacttc aacatgcctt tggactaaca aaaatgaagn tactcattat 360
 ctatatccat ttctgactag accaagttct aat 393

<210> 3052
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3052

gacactatga aactatgcat ctcagctttn agagcagctc cacacctaca tttctccatg 60
 atagaagaaa aataaaatgt cttgatgagg aatgtcctct taactggtag ctagttcttg 120
 tttgaacctg agtctactgt tctcttaact gatatggtat atttaaaatt atgcttttgt 180
 gattataaca ttattttttt gggcatgctg gctttttttt tttttatcta attatgtgat 240
 atgagaaaaa cattctactg aaaaagaaat ttgttcttaa ggtgattata atttctgtag 300
 atttttctta caatcacatt ttgtttacta tactaacttt aaaatttttg ttttatagat 360
 tttattgtag tggtttacat tatagattct ttacaggctt gggacatctc atg 413

<210> 3053
 <211> 209
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3053

agaagatggt gagaggacta ccctctatta accaccttga tcaactctgt gaaggatggt 60
 tattggcaag caatttagaa tgagttttcc agaggagtca aacgcaagag ctaagaagcc 120
 acttgagcta atacatgctg acgttngtgg gccaatcaag ccaagctcac taagtaaaaa 180
 taactatttc gggcttttca ttaaatgatt 209

<210> 3054
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 3054

tgcacaataa gtaattaatt ctattttttt aaaaggaagt aactaactaa ctaacttcca 60
 ctaatatata gagtgactac tcataagaaa gggatgagaa ttgattaggc ccatctaadc 120
 tacctaataa aactaacaaa gctcaaactt gcagcccaat tattcaagtg tagaggttac 180
 aacttccaag ctcaatttga ccctcgaaat gacagaattg gccgaaactt atttgtgact 240
 taattgaatc tctttttctt aaattttccat agactactca catgctccat ttgtagtttt 300
 gtagtgtcct ataggcccta cataaagcag atagggtcaag taagcacaaa atctaaaaaa 360
 tagc 364

<210> 3055
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3055

agtcatttat gatcaggctt ggaaagggat tgatganaat aagtgggtcca agatattttg 60
 agaatggcca aaccaaggt cttgctgtt taataagaac ctcttcatgg tctaaatcca 120
 ggaaggacca ctttcagaaa gaaaattatt aactnnttta agaaaaactt ataaaccctt 180
 atttgaaaaa aggtaaaaac cttntaaaa gagttacatc ttttgatatt ttnttttcag 240

aaacagtcac tggaatcga ttaccaaatt agtgtaatca attacacaaa gcttttgagt 300
gaaagaatgt gactcttcac attntaaatt gaattccaac gttcaaggac actgggtaat 360
cgataccaaa acattgtann tcgatacaac cttttgaaaa taattggaac attgtaaatt 420
cagtttgaaa actttntcaa actcattttg ctactgg 457

<210> 3056
<211> 199
<212> DNA
<213> Glycine max

<400> 3056

tagggatgga atacttactt gttggtgatt atacaaaatc tcaaaacgga atcaaaaaat 60
gcgaaaaagg atgaccctaa ggctgcaaat tcgtcaatcc cgcggggatg gcttttgaaa 120
ggggggaaaa gaggtttttg aatgtaaaaa cgccccccct ttcgtcattt ttataatttg 180
gtgcacgggt ggctcaata 199

<210> 3057
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3057

agcttcgtca ttcacctata tgntgtagca agtttgataa tgatgtcggg tnttcccttt 60
ttatacatta cgtttttaaat ttaaagatat tctatatact tctcaatagc aacataattc 120
ttattactnt tttacttcta ctttttggtta aactaaatca ctttttatat attttattac 180
ttacggtggg ggggcggngt gttataaagg atgaaacttg atcataagtt ntgatttatt 240
gctagactcg gtcgcagatg gccagatggg agtattggag tacctccaca cactgataat 300
atattatgat cataggatct aaactcttca tt 332

<210> 3058
<211> 350
<212> DNA
<213> Glycine max

<400> 3058

tttattagcc agtattatatt ataaaaattat tacaaaatatt aaacatatatt attataggaa 60
 aacgtataaa atatgataaa taacataatt agctgtctct tgataaataa caatattctc 120
 aagagtattt aatttttaatt taaagaaaaa gttagttgcg gagaggccca agcctcttgg 180
 tcattggtcc tccctccct atctatctct attcttacac gcttatttct tattttattt 240
 taagaaaagt taaaaaagga tccacggtgg gacctgaatg aaaagaagga ccgaatcttc 300
 gttaaagcgt agatacagat aagccttgtg ggggtgacgc gttcatcacg 350

<210> 3059
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3059

agcttttacc agtgcattaa aaaatctcca ctctatctca naaagatctc acctctattg 60
 gcaacctcca tgcataaatg tatgtgaaag atcaagtcac tgcctacca cctggattgc 120
 acatctcaag ggccactaat gttaagattg ttgctgacaa ggggtgtcca tgactaccta 180
 tatgggatgc ttttaagttgt actacaatga agagatgcct tcttcaaggc agatgaagat 240
 ggaattggtc aactacccta gaaattggag ttcattgttc aataggaaga agctggttcg 300
 tgatcttgat gcttacaatg tatgactttc tggaatcaaa tcttatggac gaacactcag 360
 naagcctaca cctctagtta tgatgg 386

<210> 3060
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 3060

tgccagtgtt gatgccaggg gatgatgtgc caaagtttat agccatgccg tgtccgtgcc 60
 agccttcaag accagacagc atcgttgtca ccgtcgaaat ggagaagcca ccgcccacac 120
 cgccgcaact accagtccct ttctatttgt aattagctgc ttccaagggt tcaaaatggg 180
 ccaagattct tctccacaac cacaattttc aaaatatcaa ttatcaaaga tcacagcgaa 240
 tcttctggaa ccacagtatc atagatcacg acaaaacttc tgaaaccta atttaaaaat 300
 cttggctagt tgtgctactg cttctcatca catgtttcta tttcccacca tttgtgttac 360

taatgtatat tcattttgtt cacc

384

<210> 3061

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3061

agcttgtcac ccagctcgcc catgcgagca tttatgcttt ctacancagc aacagccttc 60

tggaggaatc ttttggaggg cccaagaggg cctggatgct atttgcacct ctattgttac 120

tacatacacc ccctttgccc tttatttggga gattcttttt tcgtaaagct accaaaactt 180

acggatattc gaacaatact tgttttcttt ccgtaatcgt acggaacctt gtggattaca 240

taatcatccc ctttattgac ttacgacatg atacggaacc ttaactaatg tgcaacgatg 300

cttgcttggtg atttccggtg tgtcactgaa ccttacggat tgtgcatcaa tacctttctt 360

agatttctgg catgtcccgg aacttcacac atcttccaat gatgggtgcc aagcacctca 420

<210> 3062

<211> 355

<212> DNA

<213> Glycine max

<400> 3062

tagcccaatt caactcaatc tgtattgggt taagcatgag tacattcgct tagcgcatca 60

tgttttagtggt ctaagcatgg tgcacttatg ctaaacccta ttctttgcac ccaaataat 120

gggttaattg agctaagctc aacgcatacg cgctaagtga acttccttgc ggactggata 180

gcgctaagct atcaaccact cgctaagatc atgccccctt gaacacaggg tgcagaatat 240

tcgctgagtc gactaagagt gcagattaat gagagatgca ggttatctta tctgcacacg 300

tcgcttagcg tgctgctatt cgctgagcgc agttttatgt gcaaaaaaaaa aattg 355

<210> 3063

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3063

agctttttatc aagagncttc tttataacca ttatgaagca gaaaactaac taaactaccc 60
atcatatctn ccaaaacccc ataccacga aatcaaagg agaaagaagt ccacccaaac 120
ctgaaatttc gaagtccttc tcgtagacac gcacttcacg accccgaaaa tgctctcctt 180
tcacgatttg gggcagaaat gatggccaaa ggttgaagct ttgcttggag cttcaatgga 240
gaatgaagaa gaagaaaatg gaaacgtgag ggagagagag agctgtctga aaaatgtggg 300
gctgagtga gagagagaga gctgcttttt ggctttaaat aaaaaggggg ttctcttttt 360
ctattatttt atttaagcaa tgccacatgt ctccatttga 400

<210> 3064
<211> 330
<212> DNA
<213> Glycine max

<400> 3064

ttcattggtg aaatcaggag cagtcatttc ccttatattt ctctcatggg gtggagggtg 60
tgccatgttc tcataatggt caaaatcaga atgttcaaaa ttagaatggt caaaactata 120
atactaaaaa tcaagatggt caaaattacc aaccatagaa tgcttatact caccaataac 180
agaatgctca cgatgctcat aagggtacaaa atgatgccta actaatctat gaaatgtcct 240
atctatctca ggatcaaagg gttgtaagtc agatgcatag cctctagtca tacactacat 300
tcagcatgca caactagttt ccttcttatg 330

<210> 3065
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3065

atcttagaga taaaatccta tatactgggt actaaaaaga taagagggtt cctagaaata 60
agctattaaa gatataaatc atatccctta aatctccaca ctatcataac aaattcatat 120
catatgtcaa caacatgaaa ggaatgttag tttttaattt taagttgtat tgaaatattt 180
tttactccac tnttttctaa tttgggttac tctntctgat aacattatct ttctttcacc 240
tttcttacta cttgatcctt tctttgtgct tgtctaatta aattagtaaa tattactggg 300

tgatgcatat ctttgttgta ctttgccatt gacattgata catctttagg gcatacccat 360
gtggcagagg cacttataaa tccaattcat attntnttca caatgccatg gacgtaag 418

<210> 3066
<211> 397
<212> DNA
<213> Glycine max

<400> 3066

tcatgcaact ggaacatgga aagaagacag tatatactat gcattgaaga tttctcaaac 60
cttatcacc atacggcaa ttaaagaaag cttttaatgg aagccaagag aatgaaagta 120
caccaaaaag ccttaggctg aaataaagtt tatgattggg taaaggacat cgtaagtatc 180
tttggaaga acccaaagaa ggaatcattt gagaagaaca tatggaagaa aagggtcaata 240
ttctttgatc tttcatactg gtctgatcta gatgtacgac aatgtataga cataatgcat 300
gtcatgaaaa atgtttgtga tagtttaatt ggcaccatta acattaaaga caagacaaag 360
gatggtttga aatgtcatca atatttgatt gacatgg 397

<210> 3067
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3067

ttaagtcacc tgcggctgca gcttaagaaa agatggctag anattcttat tttccgaagg 60
gaattctatc aatagacctc caatctttaa tggagagggg accactactg gaaaaccgga 120
atgcaaattt ttatcgaggc aatagatcta aatatctggg aagccataga aatagggcct 180
tatataccca ccatagtaga aagagtttca atagatggta gttcatcaag tgaaagcata 240
accatagaaa aacctataga tagatgggcc gaagaggata gaaaacgagt acaatacaac 300
ttataagcca aaaacataat aacatctgcc ctaggaatgg atgaatattt caaggtttca 360
aattgtaaga gtgctaagga aatgtgggac actcttcgat aacacatgaa ggaactacag 420
atgttaaaa atctaggata aatgcactaa ctcatgagta tgaatta 467

<210> 3068
<211> 393

<212> DNA
<213> Glycine max

<400> 3068

taaaggggtgt gcagtgttgt aacaatgatt tacatTTtata gaaacatatt catccaaaag 60
cagtaagaaa ccacagattt gcaaaaagca tgttattgct tcttttttctt ttatgctttt 120
tgattaacta gaaacaacat taattgaatc cttactgcc a ggttgctttt caggttcagt 180
tgtattgctt atttcccttt aggaaaactt ataaccaaaa tgcttcagga aggtcttttg 240
gccgagatgt ctatTTTTTT ttttaagtga tgtgctctag ttatacatgt atgcattcat 300
tagtaatat gattattttac caccttccaa aaaataaatt gattattttac catcagcata 360
ctaatagcta catacaaaaa agtggtttgat gca 393

<210> 3069
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3069

gctttattgt cggtcgaaaa cagaatatna ttattgagaa naactgtagc ttgcatttga 60
gaataaaatt atcactacca tacatatTTa aaatggacct caaaggccaa cttgcatgga 120
tatctactat aaactanagc taaagaacca ccccataata ccctctacaa caacatgtca 180
gggacagtac ctaataactt ctaggggtatc tattacactg gttagtTTat acaattaaaa 240
aaaaatatac actatgaaga ataatgttac atagatgaaa aggaccaat attttccttc 300
ccatgcaaac cagaaatctc tattggatgt gttgttttaa tgctagagcc agtcatgaca 360
tgatgatttg cagcatgaaa gaatacaagc atatatacat atgtcatatg tataccacta 420
ctgtatgtac atatacatat gcatatgggc tttcatatg 459

<210> 3070
<211> 369
<212> DNA
<213> Glycine max

<400> 3070

actcaagctt tagtcggatc gtaggagtat ttagtgTTgt aatggTTTTt gctttattta 60

tcaagtttgg tcggctgttc acaggcatta tttttttaat ttacataagc agaatttcca 120
 acccaaaaaa attgaagctt gtgaagatat gtcaatatct ggttacacag tctaaatctt 180
 aattatgatg attaaaaaaa catttattta ccatttagat taagaaaaaa gtgggtatat 240
 ttactcttac ataggaggca ttatttatat tctctttttt aatatatgca tttcacatat 300
 aagtaaaaaa aaaatctctt tcaatgatct ccaactatcc tcctttatca agggatttaa 360
 ctcatatga 369

<210> 3071
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 3071

taagtcacct gcggcatgca agcttgtttc ttgatttgac atataaggat ctatgtgctc 60
 tttttatctt cctcagatgg aacaataact gctttatagc catcaagtat ctctgccac 120
 aagattgcag aaaaccatac aatcagctat tcttggtaga taactattct tttgtcatac 180
 ataacgaatt tcatataagt gacagttatg tataaaccat ggcctaggat ttgaaaaggc 240
 tatagatgat atgcctgccca tttccacagt atcaactaga ctaaggtaaa tagctcatgt 300
 taaaaggaaa tcttatttac cctgttcatt tgccatatca agaaaagcct gaagcttaat 360
 agcccgccgg tagtacatca ttccccttac tgcattaatg tataagtaca ataggaacaa 420
 tattaatcca ccaaaccctg tctgtg 446

<210> 3072
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 3072

tgggaaagtc cttctgattc tgtttataca tttttgactt tatggcttta tatgaagtac 60
 aaagattaga gcttttgcta gttgttatta atgaatagct taaacacttg tgcgtgagtg 120
 aaacaatggc cgtgagactg tggtttttagc tactttcctt gatatttgtc ttatgcctaa 180
 cttcatctaa ttggtcaggt tacattttat tcttctcttt ggataactgc atgtcttgta 240
 aaagacaagt gatgagggca ttttgcttca ttctcttata atgcaatcaa taacttttgt 300

tgcatacacc tttgtacata gtaactgcat gttattgtca cttggggacc aatgaactgt 360

<210> 3073
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3073

agcttgccta attaacctaa anatgagaga natatattat tgaacacaca aattgaaagg 60
 aggtcctact gagcgacttc cgtttcttct tgggtcgggt tcactctctcg gtcctactga 120
 gcgaccatcc tttctagctt aggggggaaat tccatacctt cgtcttcttc aacctcaggc 180
 cgattcacat ctcatcctaa atcgatggta gggcctcag tattagtacc ttcacaggac 240
 tcgtgatctg atctgtatcg tttaaagcga acagaaaata aacatgcaaa tgaatgagaa 300
 tgggtgaagg ccaagaatag atgaaggaaa gatctttata ttatattttt taatagcgaa 360
 agacataaca ccttaacaag gagagaaacc ctaaagccta tgcccagctg taggggtaaa 420
 gctaaagcat taca 434

<210> 3074
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3074

ntaacctcat cgtctctcac agtctttaga tttgggagcc aatccagtc tttgtgttcgg 60
 actcttagcc acttatgata gccgccgatg atctcattac tgcttccctt aagctctctg 120
 tcctttcttc acgccgcac ccattgccttg cgaactcctt ggagtacctt cgcgttgttg 180
 tcactgaaac ctctgtcgat gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240
 ggacatcctt cgcgcgtctt ttcacatccc cggtcgaacg tgcatacat ggccaaaatg 300
 gcgacgaccg ggcttttctt gccatgatga aaggcgagga aagcgtctat cgctgctatg 360
 tacactaacc ccttccatat tcgga 385

<210> 3075
 <211> 410
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3075

agcttgcttg gggngcttct atggagacta gatctttgag cttaaagtgag ggccttcaat 60
ggtgattttc caccatggag atgcagcgga agacaaaaga gaagaggtga gaggaggcgt 120
catccactac ggaataagcc atggaagaag gagcttcacc accaagatga gccttggata 180
agaagcttgg agaggatgct ttaatggagg aaaagaaaga gggggggagca tgatattgaa 240
ggaagaaaaa aaagggagag aagttgaact ttgagttgtg tctcacaaga ctctcattca 300
tcagagttat aacaagtgtt acacatgctt ctatctatag actaggtagc ttccttgaga 360
agctttctta agaaaacttc cttgagaagc ctctttgaga aaacttcctt 410

<210> 3076

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3076

tcagactaaa gcaacacaaa atctatgtat ccaaaacccc tcaattttaat ggattttcaa 60
ggtttgagaa gtgaaattga gaatggggta aatttgagagc aaactctcac ctcacacaag 120
tctataacat caatttaact tgttcaaact ggattttacac ctaaaatttc accgaaccaa 180
aatttgactc ctcaacaccc aattttaccc tagaaatggc tctttgttca ctttgggtcat 240
ttgtttttct ctctagcaca gcccaagctt tctcataagt cctaaatgac atttcaaact 300
aggattaact cactntaacc tccaaatacc actaaatcca gaattgggct ttcaactctc 360
aaagactcac tctttttcca ctcat 385

<210> 3077

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3077

catgggtgga atatagatta ngagtttcaa actaatgaat tggataaatt ttttgaattg 60
aaatggataa tcattaatcc atttatgatc cattaaaaat gtactacaaa aatctaatec 120

atccataact tatttcataa aaaaaaaggg tccaatccat ccattatatt ttatTTTTct 180
 aaaacaaagt ttaatatTTa tacacattct tacacccaaa taccatagaa tccaatatTT 240
 gtctcataaa gacaaacggT tcattgtcta tccaatagca aatggTgatc caattcaact 300
 aatctattaa ggTTtattTT tataattgaa tagattgatt ggTtgattTa tacgtgatgg 360
 atcggacggT tagTggataa acagatngaa tntccacata tg 402

<210> 3078
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 3078

ttacatgtca aattcttggT ccaccacat tatgagTTTT taagTTtaat gggcagcatg 60
 ttgatatact gaaagattca atgttccaaa tgaataataa tcaagtggcc tagTgcatct 120
 gaattTTtga taatcaaatc aatgcataag ccctTTaagc atgtTTtgat gTcctagaaa 180
 tagtagattt ttaacatttg agcaagaaaa tcaaaacata cagTcatcac tctgttgct 240
 gcactgacac cagcttcacc aaacatagca gTtgctgctt cagTgacaag agcagttgcc 300
 ccaatattga ccacctgca tacaacaaaa tactagcatg agaaacattc tatac 355

<210> 3079
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3079

agcttatgaa ccatactag tcgcttcaat gctttgaaac angTtctTTt ttggctctag 60
 agctagaaaa acatgacaac tacgactttc ttgtgagaga tcttgctcca atttgggtag 120
 ccccatgtat gatactttac atagaggtag catggaaaac accttgcaat agtgtgtata 180
 cataggtgaa tattagaagt atgaaatccc tagcaaagtg tgaatgattg tcttcctata 240
 tgaatgtctg atagtgtgga atgcctTTTT tgaatgcaaa tatgtgcagg atgtaattat 300
 tttctcatta tgcatataaa taaataggag tgaaacacta aagacttgta tggTgtactt 360
 cacctgtatg taatgtagtt gTtgatacag atgtctatga tataaattag gtgtgaagtt 420

tgacgcaaca 430

<210> 3080
<211> 354
<212> DNA
<213> Glycine max

<400> 3080

tctgttggtc aatttcgaac gtgtcgatat attatgcgtc ttgaatcgta cctccgagtt 60
aaaagttatg accatttgaa tttctcgaga gcttccgttg ttcaattacg accgtctcta 120
tatattatgc gccttaatcg gacctccgag tgaaaagtta tgaccatttg aattgggtcaa 180
gagcttccat tgttcaattt cgagcgtctc gatataattat gcgcccgaat cggacatccg 240
agtgaaaagt tatgaccatt tcaatttctt gagagcttcc gttgttaaata ttcgagcgtc 300
tcgatataatt atgtgcctga atcggacctt cgagttaaaa gttatgacca tttg 354

<210> 3081
<211> 168
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3081

agctntgagt tggatatctgg tcttagaatt aattttgcta agagccaatt cgggtgtggta 60
ggcaaatctc aagattggtg tagtcgtgct gctgattact tgcaactggag ccctctgcag 120
tttcctttct tgtacctagg gatgcctata ggtgttaatc ctaggagg 168

<210> 3082
<211> 387
<212> DNA
<213> Glycine max

<400> 3082

tgtccctgc tetaacggca ctatccact aatccctttt ctacccttac gcataatctt 60
gaaggtaagc tggcctcatt actctccttt tgggcttttc catattctgc acctctgctg 120
aatgttctct ttgtaccctt actctgtgat ctgtgttttc cctatcatcc cgcggccctt 180
gggaaatcac cttgtcctca aggtgatagt cattaagcaa agcagaccaa tctcccaag 240
acgtatcatc tggggataag ccatgccatt gaaccaagac ttcccaagct tctgaagggg 300

ttctgcgata atccacaatt gctgccggag tgagaagggg ttgatcatta tgaaattgag 360
cacgtagagg cgcgaaggaa gtgatgt 387

<210> 3083
<211> 337
<212> DNA
<213> Glycine max

<400> 3083

tggcctagcc cacatcacat gttatgtgca atgcaattgc atacaaatgc tgacttttcc 60
ttttaaaaaa ataataaaac aaagatatatt gcgggtccca tgttgctcaa aacgtttcgt 120
tatcagtttt cacatcttct gtaggtacat gaacatgtcc tgcaagggcg agagctggcc 180
catttgatac tgaacagtgc caaaaaggta atcatccacg gaaagggttat ttcgtccaa 240
gtaattaaac tgacaatcaa acgcgttttc tagctttagg tccagatcat cgttccactt 300
ggggtcgctc tgcacctccc tctcgcacgt gacatcg 337

<210> 3084
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3084

agcttgtata aagcttcaag tggatcatca tcttattaag gggcgaaaca cgattcaagg 60
gcttgcaacc atggttgta aattctagag tcaacttgta gactcttacg agattaagag 120
tttaattggc ccctatgaat gaaattggaa gttaaactcat ttttttatca aactcagagc 180
agactcggcg aactcgtgtt agactcatgt aaactcgcga gtctatcccg agtcacacgg 240
gttttagttgg gaattatatt ttttggaat aaaatcgaaa gttaaacttgt tttgtgcca 300
ctgcatcgtg aaaaaagttg atcgcgttta gggattattc ttcttttggt ccactcttga 360
ttgtcccaat ttgtccctgt tcttcattca tgacgagttg gaggcctaaa gctgntcagc 420
agcagc 426

<210> 3085
<211> 347
<212> DNA

<213> Glycine max

<400> 3085

tctgcatggt tagagatttc tagttagaga atgttttatt cgggttgctt ggggactgga 60
cgtaggcaca aggggtgtggc cgaacctgta taaatttgag tttgcacttt cttttccctt 120
aatctccttt atttattatt gctttatatt catattcaaa ttgttttatt tgaatcaata 180
tttaagaaga ttgtcattaa gggaattcat aacttgaata aaaagtgaat tacattttta 240
attggggaag tagtttgga tctcttaatt caaccccccc cccttcttaa gatattctgag 300
gccgcttggt taacaagtgg tatcacagct ttattcttgt ataaagt 347

<210> 3086

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3086

attggcaatt ccaactgcat caatgcatct ttaacaagca taccacgaac cagagcagca 60
accaagttga ccttcttttg actctaaaat accatagaaa acaaggtagt taaaatgtgc 120
aactagtcag atattaatca gatccttctt aaaccataaa ttaagggtat ttccacagca 180
naccagggaa ggcatttcaa tggctaaaaa attagatgcc aacttttctg caaaataaca 240
tggttggttaa aacacagaaa tttcttagca tgtagctagg cagtggcacc acatanatgt 300
aacaaaacat tgtaattttt caatatttat gttatggcta agctgaacat acttgtgata 360
atacttatgt tcacttttagc atgcatact 389

<210> 3087

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3087

aactaagctt cataacattt agctagaggg agtgtgctag aaaatcttta aaacatttta 60
atatcataga caatagactt tattctttgc tatatcaaat gatgaccacc ttcaagggtca 120
catcaactat atttggttgg aacttttcac aatatggaag atgacgaaaa aatgctgata 180

gtgaccacaa caatgcaaaa ttttataata gtatgttaca acggcctatg gggagaggaa 240
 aagaaggaat ataccacggc cggggcccac gatgcaacat actaccttaa tcacaaaata 300
 aacattatth tgtcactcac tatggaatth tgcaatccac aaacaacaac atatggggag 360

<210> 3088
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3088

atthttcttgt tttctaagtc ttgacaaaca acaattcatt caccagttht ttcaaattca 60
 aaaaggacga accaaaagta tatcatttgg atctatggta cgatagatgc cagcaaggtc 120
 ccttagagtg atgttcttca agctaggaat ctaatctatg gcagagtcta gatgaccatt 180
 tgtcaaatag tttgcatttg aaaaagaaga tcataataga aaaatattaa tacatagata 240
 tcataatcat aagggacttg ctaattagta tacttgggta ttagttaaag aactaaaaga 300
 agaaaatgat attgcttatt gaattacata ctacactgct atngtaagac atagtctgct 360
 tttccacaat tatgttacat ggtaggtaga gtattaatga caactgagca ataatagatt 420
 gaaccctt 428

<210> 3089
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3089

gcttgtgcat tcaatatcct gatgaggggtg ttccatatgt tctcaagact gttctaatac 60
 attcgctgcc caagcatcat ggtcttgcag gtgaagatcc tcataagcat cttaggagt 120
 tccatattgt ttgttcacc atgaagcccc ctgatgtcca ggaagatcat atctttctaa 180
 aggtttttcc tcattctctg gagggagtgg caaaagattg gctttactac cttgctccca 240
 agtccatttt cagctgggat gaccttaaga ggggtgttctt ggagaaattc ttccctgcat 300
 ccaggaccat tgccatcaga aaagacattt caggcatcan gcaacttagt ggagaaagcc 360
 tgtataagta ctgggaaaga ttcaagaaat tatgt 395

<210> 3090
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3090

gcttgtgact gtaatagtat gacataacca cctataactc taccattctc tgatgatttc 60
 tgacatagnt ctctgtacag gttttctaaa caagcaaaac cccaactata tttttttatg 120
 ttgtcaaagt catgtaatag gttcaaatac attagatgaa ctctatttcc agatttatca 180
 agtattaaaa agccaccaat tatgtacatt atgtaagctc tacacctaca ttgtagtgg 240
 ggtattgttg gttcttttagg taatgggtgtg cacaagatgt taagcaacca tgcagcttc 300
 agtgtggctc cttacatgc attatttggg ggcacttcac cgagtaactc gtcgcataac 360
 taatcccaat gtaagaagct aggtcctgtc acaacacaac catcgaccct aatgcctaga 420
 tgcagtgcaa catcttcaag tgtgatagtg cactca 456

<210> 3091
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 3091

tgccaccag ctgcccagg cgagcaaggt tgcttccttc agaagcttta gtcttctgga 60
 ggaaggattt ggaaggccca agtgggcccag attgctattt gtacccctt tttactaaat 120
 gcacccctt ctattttttt ggtaattctt ttccgtaac gttacgaaac tgtacgaatt 180
 ttgtaacgat acttattttt cttccgcaag gttacgaatc cttacggatt acatatttac 240
 tcttttttag ctttcgaaga agttacggaa acttacggat tgcgcaaaaa tacctctttt 300
 cgacttcgc cacattacag aatttcacgg atagtgcagg cttgctatct tttgatttct 360

<210> 3092
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3092

gcttgagatg aggaagtgct gaaggngaa acttcctgct tttatgggtg accacagagn 60
 ggnacctgga gatatgtcgc ggtggtcagg agaccttggg gacgtcaggt ggggtgctat 120
 tgcccaaaac caagcttgac caatcccgac ccaacccggg catagtcggt cagtgagaac 180
 ctgtgatgta cctaagcagg cgagctcctt gcagtcaacc gataaaagga aaacaaagac 240
 cacaaagcaa ggaggcttgt ggtggctgac cagctgtgaa tttgtgtgat atgtggagta 300
 tagtctctgg taatcgatta ccaaggtggt gtaatagatt acaaggctta naaatgaaga 360
 caggaggcta agatggtctc tggtaatcta ttacca 396

<210> 3093
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 3093

tgtccacaaa aataggtttt tgaaagttta tcatttcac tcttactat agtaaaagga 60
 tcatttttaa ggtccaacgc cttaaaatga tcacctttca agtaaaaaag agtcacttga 120
 ttcacgcata agaaagaact atgtaggat gatttcctca tcccaattga ggaatacgt 180
 gcagtaaagg gaaataccct tgtcgacccc aaaaagagaa aaaatataaa aagggtataa 240
 aggatataag gacgtaaaag ggaacataaa aatctaagtc atgtttgcac atttgattat 300
 aggctgccgt ctcttatgac ggacgtgtgg ggtgctaata ccttcccat gcgtaaatac 360
 aact 364

<210> 3094
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 3094

agcttgtctc agcgttgggtg cgagacggag actaacatgc tagctatcat cgccaagtac 60
 caagaagagt taggtctagc cgcgcccccac gagcatagga ttgaggacga atatgccc 120
 gtatacgcggt aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
 atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgtttgtta 240
 gccaaaggcca aagcgatggc agacacctac tccgcccccg aagagattca cgggcttctc 300

ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
 tgtatggctc ctcagacctt gactagatat gacttccttt ttgaaataaa atgagttggt 420
 cccatgtttc tactccaaaa aacttgtgca aatcaaatca cttcta 466

<210> 3095
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 3095

tctagctcta taatattata ttctatctta ctttcctttc tctcctccc ccatgttctc 60
 ttcactttcc ttcctcctcc cccatgtttt gtctttcttt cttttctgat tacgcactca 120
 ctcacatgca tgtgtaacaa ctaaaataat taatataact attttaaaac cattactaaa 180
 gctttttttc ataatagcgt ttttagcact tttattaaga caaccctaac actacaatct 240
 atatcccggt catgtcatcc catatgtggc tagagggttg tattgtgttg tggtaaggc 300
 tgcttacgca ctagtggtcc tgatgaaaca ctacaatttc tacagttgcc actttagaat 360
 tttggaaaat caactaatgt tgtagcact ctaaatt 397

<210> 3096
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 3096

aggctgcagc tgcccagaga agagtcacgg agatttctta ccacctcaca agactggaaa 60
 gcggtttcta atgactcctc tacggcctcc acataaggca tagaggatgg gcagctcacc 120
 aagatgtctt cctcgcctga tatgatgacc agatgccctt ccactacgaa tttcaacttt 180
 tgggtggagt tagagggaac aactcccact gagtggatcc acggccgccc caacagacag 240
 ctgtaggggg ggtaatatc cattatttgg aaggtaactt gacaggtgtg agggcctatc 300
 tgtaccggga gatcgatctc cccctaacc tctcggcggg tgccgtcgaa ggcacgaacc 360
 accattgaac tcggcttttag gtgggaagca ttgaatggta atttctccaa agtgctctta 420
 agcatcacgt ttaaactgga accattatcg a 451

<210> 3097

<211> 378
 <212> DNA
 <213> Glycine max

<400> 3097

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tgagtcacag ccgaaatgta aaagaaatct acattattta aacactgaat gtggacccca 60
tccacttgat ggggctaaaa ccacattcga actgagaatc acaagacaag acaaaaagca 120
actaaaatat ccagctaata caaccaaaca aacctaaccg aaagctacag tttcaaaggt 180
atccaaaagc aaattttaaac cagaaagcag cagaagaaac tatatgaaaa agagaacacc 240
aaatccatca tgcacaatat tgcattctta gcttttctat agatcatctc catgagatcc 300
atttccttct tcattctgaac ctccggcgcc atctccatcg caacatcata accccatgtg 360
ccattctcca cagcagca 378

```

<210> 3098
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3098

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agcttggagt tgttatcttc gtgagtctag gtttcaactc tctcatccac ccaaaacaca 60
tgtcanttga accattcaag agtatcaaca taaggcgatt ccaaaagttt cctgagaccc 120
taacacacaa caacacattc acattaaccc taatccagtt caattcaatt gaatcaatca 180
ctattagggt caaacaaaaa aaaaggaaca tttaaaaccc tcaccggaga tatcggcaaa 240
caataaaagc ccctctttcg aaagtgaatn tgttggagag atcgaagact tatgctggcta 300
gggacacgac aagaatcctt ttttcgaaga cctcgacaaa aaacattatt gatgctttca 360
cttagggggc aggtcttttg ggattgacga tgctaacact nttgaatcta ct 412

```

<210> 3099
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3099

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acctatgcaa gactcaagct ttagcccttt accatcctcc atatgaactt tccaatttat 60

```

cgagtagtta catttatata ttcatttttt ttcacaaaag tgacagtaag gtttgatcat 120
 aaaactttgt ataaactatt taattctcct atcactagac tgatttagtg gacatatatt 180
 tactctttct ttcactttaa ttttactgca cttttttatt ntatttttta tcataccact 240
 tattagttat tacatctata actttcttta taacaatcaa atccgcccc aaaatgtggt 300
 tatgtttata tttttcggtt actcttggtt gtaggttttt attctttccg atgtaatgct 360
 ctttttttta aagatggaat ggaaaa 386

<210> 3100
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 3100

tgcaacaatg cataaccagc taatgggcat tagcaatttg tgtataacaa acgagggctg 60
 aagcctcact ctatacttaa ccactcaaga cagcttattt accaataaca gtgcattaac 120
 tcgcatataa gaaaaagcaa cgctatctct cattagagag aaacaagttg acctgtagct 180
 tagccaccaa aacagaacca tcacgatatc tgaaagcgaa accgccataa c 231

<210> 3101
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3101

agcttcgtat ccaagacatt ctctnggggg tgtatcttct tcttccatgg cttattccct 60
 aggggatggt gcctcctctc acctcttttc ctttatcttc cgctgcaact ccaaggctga 120
 naatcaccat tgaaggacct cattgaagct taaagatcca gcctctatag aagcttctca 180
 agcaaacttc catcattcct taactccttt gttaatgaac tacttttcat tatcggagat 240
 canagtgtta ggaatttcca aatggcaaac aatgttnttc caaatgaatt tttgaacatt 300
 ngttgctgaa atgggtgctat aggctcaggc tcgatctatt ttgtgaaatg atcaatgcca 360
 actaggagaa actntacttg tctttttgca ngggaaaagg tccaagtatg tctactaccc 420
 aagaggcgag aggccatga 439

<210> 3102
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 3102

tggagaaaat gccaaactaaa aagtgaaatg aaggaagttt cttaaagata agagataaaa 60
 gaaaaagagg aaacgattga ggaagagaaa gagaaagatg aagaaagaaa agatttacga 120
 atagaaagag aaagatggag aaagaagagt gaacaataaa taggggctgt ggaaatatca 180
 taaatgcccc cgtttatact acgtgtcaat gctgaagaca ggggcaaagt cgactacttt 240
 tagagtgaag aagacaataa aaccaataaa tgtgtaatat gtcaacaaag tatccagtgc 300
 aaaaaaggat tattgctaaa ctattctttt catatagata tattagatag ata 353

<210> 3103
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3103

tgcccccttg accactgaat gactgcattg cacncccn ccgaanacnc acgcttcagc 60
 gagcgctnaa aangagaggg gttttgtaaa tgttgatttt ttttcagaca tccgaggaaa 120
 agatattgtc gtttgaattt tgcacgacca ttaacattca atttcgagcc tctcgattat 180
 tacgcgacta atagacatcg agtaaaagtt attggcgctt gaatttgcaa cgaccatcaa 240
 cattcaattt cgagcgtgtg gatataatcg cgactcaatt agacatcaga ggtaaaaggg 300
 tattgtccgt tgaatttgca accaccaata acattccatt tcgagcggtt cgatatattt 360
 cgcgactcaa tcagacatac cgagttaaag ttattggcgt ttgcatttgc tcagagcttt 420
 agcatgtagt ttcg 434

<210> 3104
 <211> 194
 <212> DNA
 <213> Glycine max

<400> 3104

ggaatgagag gaaacggctt gcctcagttc ttgattatgc acatgaacta ttgaggacct 60

ttcctggatc cacagttaag atcaacacag tgccaaaatc acaaggtaca ccacactttt 120
 agaagcgata tatttgacct gccgcctgtc atatcgggat tgggtgctgga cgctaccat 180
 tcatacgtct agat 194

<210> 3105
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 3105

tgtactccat cgcttgctac gtttgaatac gctttcctat tcctttccct ttagaggggc 60
 acaggtgtcc tcatcattgt gccaaacatt acagtcaatg ctggaaagat aatgtaagct 120
 gctgctttta attcattata tctactgttc ctttaataaa aactactcaa aaaatgttat 180
 tactctctat tgttgtacga acaaaaaacc atactgatta ctatgtgaca agacaccaaa 240
 cgcatacaaa gtactaggag tataaaaaat tgaaatctta ccttat 286

<210> 3106
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3106

cggatcctta agcacctgcg gctgcaagct tgaatattha agcaagagtn tggagtgcac 60
 attgaagtta ctaagatgtg gagagccatg aaagaagcaa agcaactagt ggaagggaat 120
 gagaggaaac aatatgccaa agtatttgat tatgcacatg aattattgat gagcaatcct 180
 ggatcaacag ttaaaatcaa cacagtgcc agtccagaag gtccaccaca attttagagg 240
 ctatatatth gtcttgctgg ctgtaagaag gggtttggtg ctggatgtaa accattcata 300
 ggtctagatg gatgtttact aaagagtgca tttggaggaa acttgctttc ttgctgtggg 360
 cttgatgaca ataaccacat ctttgttatt gcttatgctg ntgnnggacat tgagaacaaa 420
 gacaattgga aatgggtttha actttgntgc atgaagatct tggggattac ata 473

<210> 3107
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3107

tccaagatta ttttcatgac gccaaagatt gttnnaggat tcattcacga ctagagtaat 60
 tcaatccgna anattcaatg aaaattcaag aaaaactcaa gatatgcaag aacttcaaga 120
 aaaacatcaa gataagtata aaaagaattt ttcaaagaaa aaattgaata tcacaaattt 180
 tccaaaagaa nnnngcggggg aaaaatcttt taccaaaatt tttactctct ggtaattcca 240
 ttacaaaaan gccctaattt attaccanaa nccccaaaca gttttatacg ggatttacia 300
 agtagtaatc gatttccatg ggcattgaat cgattacaaa tatttttgaa cattgaattt 360
 caaatttcaa gagtcacaac ttgtgataaa aca 393

<210> 3108
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 3108
 agcttccatt ggttgaattt gagcacctcg atatatatgc gcctgattct aatctccgag 60
 tgaaaagtta cgaccatttg aattcctcca gagcttccat tgttgaattt cgagcgtctc 120
 gatataattat gcacaagaat cggacctctg agtgaagaat tatgaccatt tcaatttctc 180
 gagagcttcc gttgctcaat ttctagcacc tcgatataatt atgcgcctga atcggacctc 240
 caagttaaaa gctatgacca tttgagattc tcgagagctt ccgttggttca atctggagcg 300
 tctcgat 307

<210> 3109
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 3109
 agcttctata taagctgaac cattatatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccttg cctgtatcaa aggactttca caaccttctg gtgttgccct cactggaaag 180
 agtgattctt tcttctctt catgatcacc cttgttcttt caaaccacaa ttocagaaaa 240

tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg aatttcaaaa cgagaccttt caccttcgtt tggaatc 357

<210> 3110
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3110

gcttgctaac ccatggaagc tcctaatac tcccacactn tntaggttgt gccattcttg 60
 gatggccttg attntcttag ggtccacttg gaccccatth ctaccaacta caaaaccta 120
 gaaaactata ttatctatac aaaaggtaca ctctctata ttttcataga ggggtgttntt 180
 cctaaggact gaaagaactt gtctgagatg tcctaagtga tcatctagcc tcctactata 240
 cactaaaata tcatcaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca 360
 ttcatacaaa ccanacttgg tcttgaaagc agntttccac tcatcacctt ttttcatcct 420
 gatttggtga taaccacttt ta 442

<210> 3111
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 3111

tgttgaatta ccgaaaggaa ataaggtagt tgtagcataa tggatatttc ataacaaatt 60
 ggacgaaaat ggtgaggttg tgagaaacaa ggcaatatta gtctctaaag gtgactcaca 120
 ataggaaggt ataaactaca tagaaacttt tgcacatatt gcacgttttag aagcaatagc 180
 catcttactt tcatthgcaa cctatagtaa tatgaagttg tattaaatgg atctaaaaaa 240
 cacatthtta aatggattaa tccaagaaga agthtctatt gaacaatctc ctggatttca 300
 aagtgaacc cthcttcaac atgtthttaa actcaacaaa gcatcatatg gacttaaaaca 360
 agc 363

<210> 3112
 <211> 463

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3112

gcttatgctg canacactta taatagacct ccttaacagc aaaaccttct tcaatagaat 60
aattatgacc tttcaagcaa tagatacaat ccagggttgga ggaatcatcc aaatctgaga 120
tagacaagtc ctccacaaca acatcagcct gtccctcctt tccaaaatgc tactggtcca 180
agcaagccat atgttcctcc tccaatgcaa caacaacagt agcagtcaca acaaagacaa 240
caagcaactg aggctcctcc tcaaccttcc ttagaggatt tagtgaggca aatgaccatc 300
cagaatatgc aatttcagca agagacaaga gcctccattc agagtctgac aaattagatg 360
gggcagatgg ctactcagtt gaaccaagct caatcccaaa attctgacaa attgccttca 420
caactatgc agaatccgaa aaatatgagt gccatcacct tga 463

<210> 3113
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3113

ntgtgggagt cagagttgta ctgggttagat atgtgttgaa tgtttactgt ttaggggttg 60
atttttactg cttttagcac aagaataata aaatcattca aaaatattat tttctgagtt 120
ctggtttggt catttgaaag aatgccataa tcgggtcatcc tatgccctta ttgagaattt 180
gagaaattgg atggagaaaag ggtcaaggct caaaatatgg aagcagtctg atataactcg 240
aaacattcat taacttagct ctctgttggt tttccagttt tcatcatgtc atcatttatg 300
tgtgatctgt ccattcctag aaaatcgggc acacacacac acaacactnt tagaaaatca 360
tatatt 366

<210> 3114
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3114

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 atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgataataac 120
 tttttactcg gatgtttgat tgagtcccgat aatacatcga gacgctcgaa attgaatgtt 180
 gaagctctca gcaaattcaa acgacaataa cttttttact cagatgtctg atagagtccc 240
 gtaatatatc gagatgatcg aaattgaatt ctgaagctct gagctaattc aaacgacaat 300
 aactttttgc tcggatgtct gattgagtcc cgttatctat tgagacgctc gaaattgaat 360
 tctgaacctc agagctaatt caaacgacga ataactttta ctcggatgtg tgattgagtc 420
 ccgtaataca 430

<210> 3115
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 3115

tcagaattca atttcgagcg tctcaatata ttacgggact caatcatata ttctgcaaaa 60
 aagttattgt cgtttgaatt agctcagagc ttcagaattc aatttcgatc atctcgatat 120
 attacgagac tcaatcagac atctgagtaa aaaagttatt gtcgtttgaa ttagctcaga 180
 gcttcaaaat tcaatttcga tcgtcttgat atattacagg actcaatcag acatctgagt 240
 aaaaaagtta tggtcgtttg aatatgctga gagcttcaac attcaatttc gagcgtctcg 300
 atgtattacg ggaatcaatc agacatccga gtaaaaagtt attgccgttg gaattagctc 360

<210> 3116
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3116

aatcgattac acagntatat tntgaagggc catgactttt gaatttgaat ttcaagagtt 60
 ccgttgctgg taatcgatta caaatatttg atcatcgatt acaagttcaa aattcacatt 120
 cagaacctt tttaacatta cccagaggct tggatgtctc ggaaacactt tgttttgagg 180
 caaggcttga tcttttagtga atcttgaaac aaggctttnt ttgttgaagc aatcttgat 240
 taatcttgaa gcattgctta tcctttgaag caaccttatt tgattcttct ttggcatcat 300

caaaatcatg tatgcataca ttcacattct cccctttttt gatggtgact ctcattatca 360
agcaaattct ttctgacatc atc 383

<210> 3117
<211> 388
<212> DNA
<213> Glycine max

<400> 3117

tgacacttcg agacttatac aatactcaag cttcccgcca atggtatttg aggtttaatg 60
ataccattat ttcctttaga tttaaggaaa atactgttta tcggtgtatg tatctgaagg 120
tcagtgggag taaggttatt ttctaatttt gtatattgat gatatcttgc ttacaactaa 180
cgatcttggg cttcttcgtg agactaagaa atttctctct agaaactttg aagtgaaaga 240
tatgggtgag gtaagctatg tgatagggat aaaaatattc cataatagat cacaaggatt 300
gttaggttta tctcagacag tatatatatc gataaagtgc tagagagatt caagatggaa 360
aggtgtttaa cattgcctac tctaattt 388

<210> 3118
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3118

agctntaagg tgtgcaactc caccattttc atattagaac actggtaatg ggtctactat 60
cattgttatc atttatttct ccatcattga ggtgccactt gagctgccag gtctctccac 120
ctttgggtgt attctttgaa acatttgtgc ccttttttgc acatgttctg tagttgcatc 180
ctatctggag ccatatcaga attgtactga cactgcctaa cgaaagcaac tattaggtcc 240
ttccaagaat ggactcggga aggttccaag ttagtgatcc aggtaacagc taccacagta 300
agactttctt gggagaaaatg tatcagtagt tctcatctt ttgcgtatgc cccaccttc 360
cgacaatata tctttagatg gttcttgggg aaagtagtcc ccttgactt gtcaaagtcc 420
ggcaccttga acttgggagg ggtaatgat 449

<210> 3119

<211> 364
 <212> DNA
 <213> Glycine max

<400> 3119

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tttctttctc aatcaacctg tctattgtct aacaattcta attgcaagtt caactttttg 60
ttctttttat gtctaacata catatttgct caaacttatg aaaagaaaca caaactccat 120
cacaatcatg catttaatcc aaaatcaa atacaacacca atgaaacata tttgctagcg 180
cttattacag gatcaacaaa tttcaaaact tgtaggctaa tgaaacttga aagaaagttt 240
ggagaatcaa agctccacaa agaattgagag tctttatttt gcagcctaga catgataggc 300
tatctttcaa attctcta atcgagaaccg aaccaaacac aaatgttttt tttaatttct 360
attt 364
  
```

<210> 3120
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3120

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agctntgagc caattcatal gacaataact ntttactcgg atgcctgatt gaggcccgta 60
atatatcgag acgctcgaaa ttgaatgtgg aagctctgag ccaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgacgccccg aatatatcga cacgctcgaa attgaatggt 180
gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcttg 240
tcatatatcg agacgctcga aatngaattg tgaagctctg agccaattca aacgacaata 300
actttttact cggatgtctg attgagtccc gtaatatatc gagacgctca aaattgaatg 360
ttgaagctct gagccaantc aaacgacaat aactntttac tcggatgtct gattgagtcc 420
cgatcatatc cgaga 435
  
```

<210> 3121
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 3121

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tcaacattca attttttagcg tctcgatgta tgacgggact caatcagaca tccgagtaaa 60
  
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aagttattgt cgtttgaatt agctcagagc ttcaacattc aattttgaga gtctcgttat 120
 attacgggac acaatcagac atccgagtaa aaagttattg tcttttggat tggctcagag 180
 atttaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa tttgctcaga gcttcaacat tcaatttcga gcgtctcgat 300
 atatgacggg actcaatcag acatcccag taaaagttat tgctgtttga attagctc 358

<210> 3122
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3122

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 cagtttgatca gattgattgc gaagaaatgc attgatcgta tcctgggtgag agtgtgatcc 120
 ttaaattntg agagaaacga ctatcattta gtactaattn ttgcatgaat ctctgaagta 180
 tggactgaat gcatgaattg aggatgatga aggccatgct ttgattgtga tagctactta 240
 gccaaaaagc tgaccttggtg cttgaatgat ttatcccttg caccagttt gagttgaatg 300
 aattattgat tgattgaacc ttgagcctat acagtgttat ctcttgctac cttgttntag 360
 gttgtaggag agcatcatcc acagaaagct tgattcatag taaatttgtc ccannattgg 420
 gggagtaa 428

<210> 3123
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 3123

tcaaaccaca gcaacacaaa atctaggtgt ccaaaacccc tcaattcaat gggttttcta 60
 ggtttgaaaa gtgaaattta gaatgaggta aatttgaggc aaactctcac ctacaccag 120
 tccataacat ccatttagac ttgttcaaac tggatttaca cctaaaatct caccgaatca 180
 aaatttgact cttcaacacc caaatttgcc ctagcaatgg ctctttgttc actttgggtc 240
 tttgttttct tctctagctc agcctaacct ttctcacatg ttctaaatga catttcaagc 300

tagtattaac tcactctaac ctccatttac cacagaattc agacttagcc t

351

<210> 3124
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3124

agcnttgacc aaacctcatc agtagttggt tccttagaga cttgccttaa caccttgtct 60
ctgacactaa ggataattgc actgtgtgcc ttctgcagta gtgctttctt atccccatca 120
tccatcatct ttctgagttt ggcttttcca tcaagtgtt ccaccaggcc ctgctgaaca 180
agaagggtc tcactttcaa tcgccataac ccaaaatcat ttttccctt gaatttttca 240
acctcact tggccaagcc cattgcttga atcgagccca aaatcatcca cgctcacaaa 300
aatatgagtt tcttgtttga acaagaatga gcaaaaatgt agaanaagat gaacaaaaga 360
acttcaaaga atcgtgattn gactagagta aaaaatcaac tctcaatctc ctcacaataa 420
ccactnttat ttaaactctg aataat 446

<210> 3125
<211> 388
<212> DNA
<213> Glycine max

<400> 3125

tgacgtacgc taagcctcgc atctcaggta agcgcattgt gcagaaagat ttttggtgtt 60
gcagaaagcg ctaagcacgc ctgctgcgct aagccccaaa tacttactgg aagttacaac 120
ttcaagttgg gcttagtgtg aggctaggct aagtgccagt gttttaaact taaacgtcac 180
gttggcacgc taagcgcgcc atatgaaatt tagtttttaa aaagtagagg cagagacact 240
tgggttgcta ccttggcacc caaacctcta cactctcaca tccttgagca ttctctttt 300
tctgttgtgt gctactgacc ctctgcacaa tttgcttctt cattctctgc gttacacaat 360
ccaagtaagt ctattgattt cttttact 388

<210> 3126
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 3126

agcttctagt cgtccataga cctcctctgt gttacggctt agcaaacggt gcatctgtgc 60
 attcatcgca tccactaaca gacgttgagc gccgtccaac tgatgggtact cgtcaccacc 120
 accacctgct ccagccataa ttcaacagga aaaaaaatg tgcaataaaa attattaagg 180
 tttcaggacc tcacaacact ctactcacgt ctcttagatg gtagtacact cgtgtttaat 240
 gctctcaata ggcttttgtg taatgtattc cctcttgctt tttaccactc gtgtttcctc 300
 ttaagttcct ggatggacca nattagacac acaaggtaat ataaaataaa aggaaagaca 360
 atataatgat cacaaacaga tttgatttgg gataacaact tggactngat tnggataata 420
 atatatt 427

<210> 3127
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 3127

tcattgccta acaagccaac ttacaacagc aagccccttt agactcagca taaggatgca 60
 cagggtcaaag ttgagtatgt gaaaagattg tatgaccaag tgaaagtgca aattgcaaag 120
 aagaatgaaa gttatactaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180
 cgtgatgatc ctggacattt gaggacaaat gtttttcaag aaagagggaa tgatgagaat 240
 catgaaacag gccaaataca gtctaaaggc ccaagtggag aaagacgaat gcccaagtgg 300
 agaaggacaa 310

<210> 3128
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 3128

agcttgtatt tctctcccat gggtgatata atatctatga tggatatcaa gctcttcctt 60
 tgaagagccc tgctgcgcta cttatattct tcctctcgat tatcatatcc ttcattctta 120
 catcatgagt gaacaacaac aagatcaatc acttaatgta cacagtcctt attaccttta 180

tctgggagaa aatccagcga tagctttggt ttcttcggtt cttgattcat ccaattataa 240
 ttcatggagt cgatctatgc ttattgcatt aagtgcgaag aacaaatctg agtttgtcga 300
 tggttttatt caaagacctg catcagatca tgcacttcat gcagcttga agaggtgaat 360
 aatatggtga ttctgtggtt ggttcattca atctctcttt caattaggca aacatactat 420
 ggatggataa tgcac 435

<210> 3129
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 3129

ttatatttta tattagtcct ttctcacgtg atcgttttct tcaaagcctt cagatccatg 60
 acactagcac tgcgttcaca cttcacgcag gcacaataaa aagctaaagt atccaccaaa 120
 actgtctttc ttcttctaag tgcaattaaa tatggagata atcaaatcaa atttgactac 180
 aatttttgtt tcctaagctg ttgagaagc caaaataatt ggttcggtgc gtagttatgt 240
 cacatcaagc tgaaccagct tatacatctt ctaagacgaa tacaataaat aaattaacca 300
 aaggtggacc taagaataat taagataagc tctttgcaat agaccgtgaa cccc 354

<210> 3130
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3130

ntgaacnacc cgtnncaactt tgancccttt tattatgncc ttcgtannna ccgcggcann 60
 ctnaaagaat agctggaggc atgccagctt ctaggctcca tatatctctc tcgnggttct 120
 gtcancanac gatgcatctg tgcattgtcat ctgatacact tacagacgtt gagcgccggc 180
 canatgatgg tactcgtcac caccaccacc tgcttcagcc ataattcaac aggaaaaaaa 240
 aatgtgcaat aaaaaatatt aaggggttcag gacctcacia cactctactt acgtctctta 300
 aatgggagta cactcgtggt taaagctctc aataggcttt tgtgtaaagt attccctctt 360
 gcctcttacc acctcgtgtt cctcttaagg tcttgatgg acccaattag acacaccagg 420
 gtttatataa tacaagcgaa gacaatatta tgatcccca ccgatttggt ttgggatacc 480

acctggactt gatttcgaat ataanatatt acatatggag ttggcn

526

<210> 3131
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3131

aagcttgctt gcgngcttc aatggaggaa aagaaagagg gatataaaga tatagggggg 60
gagcacgaaa ttgaaggaat aaaagaggga gagaagtgga actntgaagt gtgtctcata 120
aaactttcat tcatcaaaga tacaaccaag tgttacacat gcttctattt ataaactagg 180
tagctgtctt gagacgcttt cttgagataa ctctcttgag acgcttggtt gacaaaaagt 240
acgtgagaag ctagagctta actacgcaca cccctctcat a 281

<210> 3132
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3132

agcttatgct acanacatct acaatagacc tctcatcct cagcggctat ataagccaca 60
acagaacaat tatgacctct ncagcaacag gtacaaatcc ggggtggagga atcatccaac 120
cttagatggg cgaatccttc acaacagtag caacaacaat aacaggctta ttttagaatg 180
ttgctggccc aagcagacca tacgttcctc caccaatcca gcagcaacaa cagcaacagc 240
cccagaaaca acaaatagtt aaggctcctc cgcaaccttc ctttgaagaa ctngggaggc 300
aaatgactat gcaaaacatg tagtttcaac aagagaccag agcctccatt cagagcttaa 360
ctaatacagat ggaacaattg gccacacagt taaatcaaca acagtcccag aattctgaca 420
gaataccttc tcaatctgtc cagaatccca caaatgtgag t 461

<210> 3133
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3133

acactcgaaa ctaagcttaa tttttggaaa attttcatgc agaagatttt atttatccct 60
ttatgcttta ttgagacatt cttagtcaat tocaagtgtg tacataatag tttgtgaatt 120
ataaagaaga agtgaagttg atttttataa tgagataatg aaattcactt tcatataaga 180
atttggtgtg gtgaaagtaa gaattcaagg tgttgaaata tcttactatg ctatttgaac 240
tatagttggg tccataagtg taatgaacat ataaatgggtg aatttatgat atgggtatcct 300
ctttttggtg ttgaatgggt gaatatgatt atgatgggtg atgttgattg ttgaatgaac 360
tancatatca tgcatatatg gataaatgac a 391

<210> 3134

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3134

gcaagcttga gcagantcan acgacaataa cntttaatcg gacggcattt gttcccctaa 60
atatcaaact gctccaaatt gaaaatggaa gctcgtagca aattttaaagc agaataaactt 120
tttactcaaa tgtgcgattg agtcacgtaa tatatcgaga cgctctaaat tgaaaacgga 180
agctcatagc aaatgtaaac cgtaataacc ttttaactcgg atgtccgatt gagtcctgtg 240
atatattgag acgctcaaat atgaaaacag aagctctgcg caaattctaa caacaataac 300

<210> 3135

<211> 346

<212> DNA

<213> Glycine max

<400> 3135

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgttc gatggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taaaccaccc atcccctggt gccacacctc 120
aactgagctc acgtactccc acgtagecca tctcctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcaa agtaatacaa cattcacaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaactctgc tcaaaacacc aacaaaaatc 300
acagcttttc tcaactaaag accccagtaa caattccttc gatcca 346

<210> 3136
 <211> 215
 <212> DNA
 <213> Glycine max

<400> 3136

agcttagatc aggcattccga gtcaaacggt atgttcgtcc gaatatgcat gggcattcca 60
 tttcaacttt taatcgtgat gatataattac gggcctcagt cggacatgcg agtcaaaaact 120
 ttatccccgcc agaattcacc cgagtcttcc atgttaaatt ttgagcgtgg cgataggcta 180
 cttcgcttat tcgaagatgc ggaggataag ttatg 215

<210> 3137
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3137

ctaagcttaa gaaaaagatg gcctcagcaa attccttatt tccagtaagg aattctatca 60
 atagacctcc aatctttaat ggagaggggt accactactg gaaaaccgga atgcaaattt 120
 ttatcgaggc aatagatcta aatatctggg aagccattga aataaggcct tatataccca 180
 ccacagtaga aagagtttca atagatggta gttcatcaag tgaaagcata accatagaaa 240
 aacctagaga tagatgggtct gaagaggata gaaaacgagt acaatacaac ctaaaagcca 300
 aaaacataat aacatctgcc ctaggaatgg atgaatattt cagagtttca aattgcaaga 360
 gtgctaagga aatgtgggac actcttcgat taacacatg 399

<210> 3138
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 3138

aattcaatca atagacctcc aatctttaat ggagaggggt atcactattg gtaatcccga 60
 atgcagatcc ttattgaagc catagattta aatatatggg aagccattga agttgggtccc 120
 tttattcctt caaaggtagt gggaaatgca actatagaaa aaccaagaga ggaatggaat 180
 gatgatgaaa gaagaaaggt tcaatacaat ttacaggcca aaaatataat cacttctgca 240

ttaggcatgt gtcgcaacct acccttttgc gggcgagcga ggcgaggctc atcgggtgct 300
tcttccaaag gaggaacatg cgcgagtcg ccacaaacgt ttatttgtgg aaaacgtcgg 360
aaaaatcgaa ggaaaccggt catgaagaat a 391

<210> 3139
<211> 380
<212> DNA
<213> Glycine max

<400> 3139

aagacttgac gcttctataa tgggacaact agagaatctt gttacgagac atgcaaggga 60
ggtagagctg gacaaaaata aagtgtgggt aaaaccttat aaatcacact acattgaaca 120
tttgtatatg atattaacaa tgacatctat tttgtaacct agaatatcta ataaaagaca 180
catttaatag catgtgcaag caacttatct taaccaggag caaggtcacg aaccaaacca 240
atacacccaa atgcacatag aggagcatgg tataatggac ctttgaggaa ataagttgat 300
agggaattga tcaaataata agcaggtaaa acaacttcac cacaaaatta taaaatgata 360
ttttcatgta acaataaatg 380

<210> 3140
<211> 167
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3140

cagattatcc gctgatgttt acataggatg catttgtaaa cagatacaat tctcttctct 60
ctctctctct ctctctatta ttttctcata taacatacac atgtgatgtg aggttgaatt 120
tgtggtcaag gagagggtgac ctangctgta cggggcaa at ggcattg 167

<210> 3141
<211> 306
<212> DNA
<213> Glycine max

<400> 3141

tcatattcat caaagcagga taatcaaatt tgctcttct tatatccaga tcgatccttt 60

cccaggcgaa aaccaaattt gcaaagcttg aaggcatgta acccaccatc ttttcatagt 120
 agaacaccgg taatgtgtct actatcattg taatcatctc cttttcaatc attggggcgc 180
 tacttgagct gccagatccc tacacctttg ggcgtattct ttgaaagatt catgctcctt 240
 cttgcacatg ttctgtagct gcattctatt tggaaccata tcagaattgt actgatactg 300
 cctaatt 306

<210> 3142
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 3142

tctcatgatg aaaaatcacc attgaaggac ctcatgaag atcaaagatc cagcctccat 60
 agaagctcca caagcaagct tccatcaagt tatgaccatt tgaatttctc gagatcttcc 120
 gtggttcaat ttcgggcgtc tccatagtgc atgtgcctga atcggacctc cgtaagaaaa 180
 tatatgacca tttgaacttc tctagagctt tcgttggtta atttcgagct tctc 234

<210> 3143
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 3143

tcattgccta acaagccaac ttacaacagt tagcccctat agactcagca taaggatgca 60
 cagaccaaag ttgcgtatgt aaaaaaattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggg acttgaaccc 180
 ggtgatgatc ttggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
 catgaaacag gccaaataca gtctaaaggc ccaagtggag aaggacgaag gcccaagtgg 300
 agaaggacaa agcccccgag tggagaagga tgaaggccca agtggagaag gatg 354

<210> 3144
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 3144

agcttgccctc atagatgtcc aggaaggaca attctgcaga atgttctagt tccgctccgg 60
 agtatgatag tcaccgcttt atgagcgcggtacaccagca gcgcttcgaa gccatcaagg 120
 ggtggtcggt tctccgggag cgacgcgttc agctcatgga cgacgagtat actgatttcc 180
 aggaggaaat agggcgccgg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240
 cacaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300

<210> 3145
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 3145

ttttaaagta gaaacatggg accaactcat tttattttat aaagtcgtat ctagtgaagg 60
 tctgagagac catacaagtt ttctagcgat ttctaattat gtggggccatt aagtctatca 120
 tatgctgaca atagccgaga agcccatgaa tttcttcaag ggcggagtaa gtgtccgcca 180
 ttgccttggc cttggctaac aatcggggaa gttcttgact cccgttcaag gtaagagcaa 240
 accgatccat ccacatggtt gcctcttgggt gtaaagagtc gatcaccttt cctctagcct 300
 ctttttccgc gtatacttgg gcatactcgt ccacgaccct atgctc 346

<210> 3146
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 3146

agctggagat gaggaagtgt agaaggggtga atctttctgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg cggggggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggtagtctac agataatatg aaac 235

<210> 3147
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 3147

tttctcagtc gtctgtaagg atgatttgtgt gttagaaagc gacgatccct actgtagact 60
 gtttttctgc catgtttaag ttgtatgtaa cttgtatttt cttcacagat ggggcatgca 120
 tgatgaccct taacactgta accgctgaga ttcccatatg ctggaaagtc attaattgta 180
 caaaaaagca ttgcacgcat ttcaaaggtc tccttgtgaa acacatcaaa cactacaacc 240
 ccctcgcccc acaactttct cagatcttca accaacagac ttagataaac atcaatgtca 300
 tttcctggct gtcttgggct cgatatcatc atagacaaca tcatgtattt tcgcttcatg 360
 cataaccaag gaggcaaatt gtaaattac 389

<210> 3148
 <211> 490
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3148

atgacccctt ganttgannc tttgagcctt gangcgcgat cttaagcgac tgagcatgca 60
 ctttctaagc gccatcttgt gacttgtttt ggcgatttcg tctgagctat catgagtaaa 120
 gaatcgttac cactcatta atacaactag cttattgcta gcaacaacga gccatattca 180
 tagctctgat gctctcaatg gtaattcctt attatggcaa tgcttctctc gatgatgaga 240
 tggcttttga tctgacgatg aatccttctc caccceaaaa aggatcctgc agtgcacgat 300
 tgagcaaaga tgaccaaaaa aaagccatct gagtccatct ttttaciaag gagtacactc 360
 tttccaacgg aaacgaccct ctaaagagac tgcattccct actaacaatg tgttgactga 420
 tacttttagac caaatctatt ggctaaggca caaactgcat cttatcttat tgcgtttaac 480
 caatgcatcg 490

<210> 3149
 <211> 350
 <212> DNA
 <213> Glycine max

 <400> 3149

tgtaggatta tgggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatgggtgcac 60
 aacaagtttt ccacatccac aaagcgtgca taaaccaccc atcccctgtt gcccacctcc 120
 aactgagctc acgtcctccc acgtagccca tatectcatt tctctcaaca ccgggtcccc 180

atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaactctgc tcaacacacc aaccaaatac 300
acagcttttc tcaacttaaag accccaataa caattccttc gatccaattc 350

<210> 3150
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3150

acctctgaga cacctgcggc atgcagcttt ataaaaaaaa ccttccatan atagtgcgcg 60
aatcctgaat agaantacta actatgcata tgtcaacata caatctcttc attaacagac 120
tcagacttct cgccacagnc atcagttttt ccttttgagt ttgacttgtc gtctccagct 180
tgtctgtcat agaacagttg gcagaattcc aaaatgaaag acaataatgt catatatctg 240
tattcctaac acattctcta gcgagtgcaa attctcgtat tacgatcatg gtagtcaaac 300
tctagattct actttgactc agacaggagc catagaatcc taataatgtg aaatcatcac 360
tcacagcgta agactctac 379

<210> 3151
<211> 354
<212> DNA
<213> Glycine max
<400> 3151

gttaatggta gttatagtat ctattatgaa actttcttgt tctaggtcta tagccttttt 60
gtatgagtaa ctggacatgt aggtacaata attggtaatg aagatatcga tagtattagg 120
tggcctgggt ctgaatgtag atgactcaag gtaatcagat tcttttcaag tcttttagatt 180
tatgcactta cacatgaaga cttgtcaatt agaagctcaa acctaagatt ggtttgatct 240
atatttgctt ctgattctat tttgcgtgt actacttttg agaatttctt aatagcttgg 300
ttttaacttt atctaggcac ctactttgct gtagaattta gtgtttgctt tggg 354

<210> 3152
<211> 482
<212> DNA

<213> Glycine max

<400> 3152

ttaagcacct gagctgcagc tatgctgaaa cattataata gacctctcta gcagcaaaac 60
catctacaat agaataatca tgacctttca agcaatagat acaatccagg ttggaggaat 120
catccaaatc taggatggac aagtcctcca caacaacaac agtctatccc tccttttcag 180
aatgctgctg gtccaagcaa gccatatgtt cctcctccaa tgcagcaata gcagcaacaa 240
caacaaagac aacaagcaac tgaggcccct cctcaacctt ccttaaaaga gttagtgagg 300
caaagacca tccagaatat gcaatttcag caagagacaa gagcctccat tcaaagtctg 360
acaaatcaga tagggcagat ggctacttag atgaatcaag ctcaatccca aaattctgac 420
aaattgcctt cacaaactgt gcagaatcca aaaaatgtga gtgccatcac cttgaggtct 480
gg 482

<210> 3153

<211> 344

<212> DNA

<213> Glycine max

<400> 3153

tgtaactctc ggcagtttct tagtcactta aaaagatatt acttttagaaa tatactttca 60
gaaacaagtc acttgaagaa ttgtgacttt tggaaatgta tttttcgaaa tcagtcactg 120
ggaatcgatt accattgacg tgtaattgat tacacatcaa cgtatgtgac tcttcattct 180
gaattttgaa aatcttaaag ttttaaaaca ctagtaatcg attacagctt tgtaaactcg 240
tttgaaaaac aatgcgcgct actagtaatc gattactacc ttctggtaat cgattaccag 300
agagtaaaac tctttggttg aagattttgt gaaaacgtca tgtg 344

<210> 3154

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3154

agcttcacca gatgatgccg atcngaacat tctcttaatc gacatcattt atttgatttc 60
agggatngac tagaatanac aatggccggt gtcggtcggtt attatggccc cgactgatat 120

ctttcagccg acattgcgca atntctttta caaacgctgg ccgataatgt ttttttattt 180
acggtagagg aagttttttg tttggtggtg cctaaaaaat tacaacgtag gacggctagg 240
tttttccgtg cgagctcaac cgagggttcg ttccgaccga cactggcatg 290

<210> 3155
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3155

tctatataag ctgaaccatt ttatcaataa agacaagttt agttttattt ataaaattag 60
agnttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaaaga ctttcacaac ctttgtgtgt tgcctcgcct ggaaagaagg 180
aatcttttct tcctttcatc ttcacccttg gtctttcaaa ccacaattcc cgaaaattca 240
cctctgcca aaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300
tcttgagcct aaattgaatt tcgaaacgag acctttcacc tcgctttgg 349

<210> 3156
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3156

gcttgtgcag ctgactatgc tgcattgttt taatattact ttgttaaata ttatatacaa 60
gnatgaaatg agattattgg tttgtatcac ggcatcacta ttatgcatga gaatcaattt 120
cccaaacaat tacaagtgtg ttatggaacg aagaatgata agggaaatta gttttaaaag 180
gctggcaatta gaagaattag ctgcgtaact gttagtgtgg gggttctcta ttataaatag 240
gcatgtcaat actgacgcac gagtatgctt tgtaagaact tggatataca actgggatta 300
tccagtgtga gaggtgagcg ctccctcttg tataactgcg tacatctgtt tgccttatt 360
gaacacaatt ctgacaatgc ttttagacat ctttctcttt gactcta 407

<210> 3157
<211> 374

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3157

ntaagttcaa gttttgcaaa cttctttccc tgctttcatt ttaaattata caagaaaaag 60
agtcagtcac ttttacaaaa agtatgcatg agcaacaaaa acataattac cttgttcagt 120
atgttcctga aatgggtccat aacagaatcc tctgacaaga catgttcata ggacttaaag 180
aactctatta gttttttcat ccctttttca gtaaagcaga actgagagag acaataagat 240
atatattccc attgtctaac atctgcagag aaataaaatc atgatcacta ttagcaataa 300
actacaaact tctcttggtt ttgaattgat ttcaagccct tcagaattac aagaatataa 360
ctcatgcttt aact 374

<210> 3158
<211> 303
<212> DNA
<213> Glycine max

<400> 3158

atctagtcaa ggtctgagag accatacaag tttcctagcg atttctaatt atgtgggcca 60
ttaagtctat catatgttga caatagccga gaagcccatg aatctctttc ggggaggagt 120
aggtgtccgc catcgccctt ggcttggtga acaagcgggtg aagttcttga ctcccgttca 180
agggaagagc aaaccgatcc atccacatgg ttgcctcttg gtgtaaagag tcgatcaccc 240
ttcctctagc ctctttttcc gcgtatactt gggcatactc gtccgcgac ctatgctcgt 300
gag 303

<210> 3159
<211> 377
<212> DNA
<213> Glycine max

<400> 3159

tttcgattca atctatgtac ccgtagtggt ccacattgtg tttcgtgtat ttttattctc 60
gttttggtta ctttttatac cccctcttga cgtgcttgag ccattttact taagtcattt 120
ctcgtttaac ttaaaaataa aataaatttc caccgaactt ttgaattgta ttatocatta 180

acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gacatcttta gtaaaataaa gcgaaaaatc 300
aatcgggcgt tttctctttg ggatttctca ttcttaatcg aattgattaa taactaaagt 360
gaaactaaag gctaaaa 377

<210> 3160
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3160

gatggcatcc tactagcatc atacgattta gtgttgcaaa atagttatat cgcaatttat 60
catgaattct ggggtgtccta aggtgatata tgagtaatct tggatgcaa cactggaaag 120
tagtaaaatg tattatgtgc taatttaata gaacaagaaa tcgcatgttt tcatatcgaa 180
attctacaag tttagagatc attgngtatt ctaacttcat tntttacaga atatcttaat 240
agcaatcact ctacataaga agccatcagg tgtttattgg gacaatattt tagcagtctc 300
attaaggatt aaaccaagta aaagtttggt gacataaagt att 343

<210> 3161
<211> 255
<212> DNA
<213> Glycine max

<400> 3161

cttgatgtga gaaagtgtgg aagagtcagt cttcctactt ttgtttgttg accatagagc 60
gggtacctgga gatatgtcgc gggggtcagg agaccttggg gatgtcaggt ggggtgctat 120
tgcccaaaac caagcttgac caatcccgac ctaacccggg catagtcagt cagtgagaac 180
ctgtgacgta cctaaacagg tgagctcttg gcagtcaacc aataaaagaa caaagaccac 240
aaagcaagga ggttt 255

<210> 3162
<211> 418
<212> DNA
<213> Glycine max

<400> 3162

gttatactga gaccacatga ctgatgcgta atcaaacatc ttatgcacgc agtgtcactc 60
 taacaaggct ttgcaaccta ctgctacttg atagaccatc gatcgtactg aactgtggca 120
 atactgtcta tagatggcta tcgagacatt actacatgat gatcgaaatg accaccatth 180
 gacactcttc cttctcttaa cttcacagcc agtaatactt gctactgca agagtgtata 240
 ttcttgaagc ctaacatact ttaccactct tcttgagaca tcaccactct aatccgtgca 300
 ctcctagaat ggccatcgct tcctctctca ccttaataac cactatcata atatatgagt 360
 cgtgaacctc accttctctt tgatgctatg atccatccct ggtgcttctt ccatcttg 418

<210> 3163
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 3163

tgaacgggat atatccgcaa tgacatatat ggcatggat taaagacttg gaactcattg 60
 aactgagatg gtgctgggac atcacgctca actatgtgag attcacactg agagtacatt 120
 gatttcatct acgctattat catagtgcta cgacatttac ttagcacgtg atagatacat 180
 cctgagaggt gcgtagaaat gcgcgcatat taacgaactt ctgtatcgta tgccaacggc 240
 cattgtttct tagagacgc 259

<210> 3164
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3164

agctntagat ctaaattttc ttccaaaata ttgttttagaa aaataacaca caatctaagt 60
 gtaaactcact taaaccatgt tgtcttagaa tcatgttttag tcatagtaat tgtcacatta 120
 tgttctaagt ttgtgttgaa tttttatttt gggtattgaa ttctagataa atttgtaag 180
 acaaagttct caggcgggta gtcctttgaa actttgtgaa ggggaaacaa aagatatatc 240
 aggcgggttag tcctttgaaa tcttttgttt tagggaaagg gaagaatcaa agaattctc 300
 aaactgtgtc attttgaatt ctttgacaag ggagaaggga gacacaaaag aattcaagca 360

gttagtcctt tgttcttttg gaaaaggcga gaaagagaca aanagaatt

409

<210> 3165
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3165

ttcataagtg aaattaggtg catccatctc tcttatagtc ttctcacgag gnggaggttg 60
agccatgttc tcagtatgaa aattaatagc cgaatgtcga aaatcagaat attcagaatc 120
accagcaaca aaatgctcaa aatgctcagg atgctcaaaa tgctcaaaat gatcaagatg 180
cacactatgc ctaactaatc tatganaggt tctatctatt tcaggatcaa agggttgtaa 240
atcatctaga tttcccctag taatgcacta tatgcaacaa ataatgtgtt tctcaacaag 300
cacctaacaa gggggtaaaa ctacaactat actcaaacaa tat 343

<210> 3166
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3166

cagatgatat accttcaggt tggttcatat aaacctcctc ctctaaatca ccattaagaa 60
aagctgtttt cacatcccat tgttgcaact caagggtcaaa atgagcaact aatgccaaga 120
ttatacgaag agaatctttc ttagatacta gagaaaaagt ctctttgtaa tctattcctt 180
ccttttgagt aaatccctta gcaacaagtc ttgccttata tctctcaatg ttgccaatg 240
aatccctttt ggtcttaaag acccatttac atccaatggc ctttgcccca ttaggcaact 300
ctacaagggt ccaaactttg ttactctgca tagaattcat ctcatccttc atggcatcat 360
accatanatt ngactcttta caactcatgg cttgatcaaa agtttcagga tcattttcag 420
ctccan 426

<210> 3167
<211> 372
<212> DNA
<213> Glycine max

<400> 3167

agcttcgggtt aatctcaaag ctacaaaaac ataacctcgt tttaggatta ccaagtatgt 60
catacaaaga tgatttactt tatgaggcat gtgaaaaggg aaaaaaatta aaaaactcctt 120
ttttcaagaa aaaacattgt ttccacctca agaccttaca tattgatctg tttagtccaa 180
ccaaaagaca tctatcaggg gaaaaaagggt attgactcat cagagccgat gactactcta 240
aatggacatg ggttaacttc ctagcctaga agaatgaatc ttttagtgct ttctttaaat 300
tttgtaaaag aattcaaaat gaaaagaatt atgcattacc ttaatcaaaa gtgatcatat 360
gggagaattt ga 372

<210> 3168

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3168

agctgtgctt tgtgccaaaa ttgaactgta ctgngaattgc caaagttgcc gatttaggaa 60
ttcttcctta agattnaatg tgttttccca aatgaattga tccttcctct ggntactaat 120
agggaaaaca cacaaggata agtgaagaa gaggcttcat gagcaccgaa natccctga 180
agaccttcca acccattgtt ctaagagatt gcaatagtaa acccaaaact ttagttctgt 240
cgattcccta gttcctttcc cctcataatg ggtggaggat tnttctccaa gaatttgaat 300
tcgtagaata tgattggta tggtgacgtt tctgttgctg tccaagacat catgggtaat 360
gtcaacccca ctcttaattg gggttgctac tccgagctgt aacaccctga aatattacta 420
attataaatt gat 433

<210> 3169

<211> 370

<212> DNA

<213> Glycine max

<400> 3169

tatagcttac ttattatcca caaaaagctt cactccatta ctttccttga tttttaattc 60
ttgtaataat gtgtccaacg agacagcttg gcaagcactc attgtagctg gaacatactt 120
agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattgggtg 180

tgcaccatac atgaatatgt aacctatagt actctttctg tcctctctgt ctctctccca 240
atccgcatca gtatatccca ctaattcctc tgagttgttg ttgtctttat ttggaaatag 300
aattccagta ttgatgggtcc cttttatgaa ccttagaatc ctcttagcag ttaggagatg 360
aggaattctg 370

<210> 3170
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3170

gctttttgtt cggattgcct aaaaatttgt ttgtagttcg gctaggtttc ttcgtgcgag 60
ctcaaccgaa gttgtatttc ggccgacgcc ggcattttgt cggccaggat aacattagcc 120
cacctcggca aaaaaaaaaac atgattcacc ggtattgaca gaaaaaaaaatg ctggccttag 180
tcggccagga aagatgaccg atcgaggtct aaaaaagaag catgaccgga ttacgccgat 240
cgaacgtttc ctaatagata tcctccaagt attattcagg gattgaatgg aaaaaacaat 300
agccgacatc ggtagttaa tagccgtgac tggatatnt tcagccaaca ttgcgcaact 360
tctttcacia acgtggccg ataatatctt tttacggtaa aggatgctt cg 412

<210> 3171
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3171

tcggttntca atttcgagtg tctcgatata ttacgatact taatcagaca tccgagtaaa 60
aagttattgt cgtttgaatt tgcaacgacc atcaacattc aatttcgagc ctctcgatat 120
attacgcgac tcaatcagac atcagagtaa aaagttattg tcgtttgaat ttgcaacgac 180
catcaacatt caatttcgag cgtgtcgata tattacgga ctcaatcaga catcagagta 240
aaaagttatt gtcgtttgaa tttgcaacga ccatcaacat tcaatttcga gcgtctcgat 300
atatttcgag actcaatcag acatccgagt taaaagttat t 341

<210> 3172
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3172

agctnttgat tctatggcca tatacaacca gtctatcccc tcgcgggcaa tgattttgag 60
 cagaaaatac cggacattag tgagctcatg gattgaacca ttacaagagg aggctgaact 120
 tggctatgag attgattatc attctaggta ttgtttctat ttcagcaata gatgcatttc 180
 ttntattttg ctgttggtgt ttctgctatt aatttattat tattttattt gtttgcata 240
 atgattgta tctattctcg gctatggaga attgaaatta ttataatgat ttgacttggc 300
 ttttatttat ttaatttatt tctattggct tttttctcg aatgtactta tgctgtacaa 360
 gagcagtgtg cataccaaat gcatgttatt ctagctcttg atcgt 405

<210> 3173
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3173

ttgaggatcg ccacaagaat ngaacaattn tttataatat caaatggntc aaggaagaat 60
 cctaacaaag acaattctca cacttcaatg tcaaagggtc ctttccattc acttcacaat 120
 tgatttatac aaatcaattc ttctgtattt gatagaaaat aaaagaaaaa taaaatctca 180
 acattgtaag cataactaaa atacctttgt gattaagtaa ggcataatta agtttgaggt 240
 ctaaattctca aaactagctc tctcatacaa ttagattgtc ctcatattag tcaactattg 300
 ttgtaaaacc tcttggtct ttttagccct tactcttgtc atggccctct tatgtc 356

<210> 3174
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3174

agcttctaga aggagatcaa cttgatgttc tatgcttctt gaagggggca gtccatgagg 60

aatctccttg ngaaagacat ctttaaattc ctgcaataag ggttgaacac tatgagaaac 120
 ataaatagtt aactgattag aattatcact ctctctctct tgngtatcac tcttttcctc 180
 ggggtgatca ctcttctttt tcatattcct ttgtgggtgcc tcaactatttt ctttctcttg 240
 ttctctcttt tctctcattc tgattgggtc atcacacact cttctagggg atagagggtt 300
 aagagtaaac gaggaagatt tggtattcg tctgtagggc tcttctttgt tacggntcaa 360
 caaacgtttg cattgtgtag tccacgcgtt caaaaataag cgctgagatt cgtccaattg 420
 atgatataca cca 433

<210> 3175
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 3175

ttcactcgca tgtccgattc aggcgcatac cgtatttata cgctagaaat ctaacaaagg 60
 aagctctoga gaaattcaaa tggtcataac ttttactcg catgtccgat tcaggcgcac 120
 aacatatoga gacgcttgaa attgaacaac tgattttctc gagaaattca aatggtcata 180
 acttttaact cgcatgtccg attcaggcgc ataacatatc gagacgctcg aaattgaaca 240
 acggatgttc tcgagaaatt caaatggta taacttttca ctctcatgtg cgattcaggc 300
 gcataactta tcgagacgct cgaaattgaa caacggaagc tctcgagata ttcaaatagt 360
 cataacttt 369

<210> 3176
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3176

tgtgggttct attaagaagg caaatgtgat cattcctacn ntaggacgac tgcagaaaac 60
 tgggggccaa atganagaag ggtgaagaaa agagnnggag aaacnnccat gcgtgttgac 120
 tgccattctc taattacggc caagtttcnn ccaccaaac caaccaatgt canttacttc 180
 agtcaataac aaaccttcct ccttaccac caccagtta tccacaaagg tcatccctaa 240
 atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt agcacaaacc 300

aaaaaaacac caacaaaaag gaattttgca gcaaaaagcc tgtagggttc tccccaaatt 360
 ccgttgatcat atgctaaact tgatcccata tccactcaat aattcaatgg tagccataac 420
 cccaaccaag gtttctc 437

<210> 3177
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 3177
 tcattaagag gcttctctta gaagcttctt cgtggcttct ttgagaatct acatccttat 60
 ctatccaccc ctctattaac taaattaact tccttaaaaa taattacgga tgaaaaataac 120
 gcaacaaata atcaaacatc aaacataatt actaataata tatagatata tatatatcag 180
 ggtgttacaa ttatcactca gatcttgact agttaaaactt tctgaataaaa atgagtttat 240
 cccgcgtttt tactccaaag atcagtgcga atcaaatac tcccacattt tatctctagc 300
 atgcattcat atcatgcac gcataagcat ctcttcatgg catcataatg aacatattat 360
 tcctgcatt 369

<210> 3178
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3178

gtcacctgcg gcatgcaagc ttgtgttcta natatgttng aatttggttat tcttttaggtg 60
 tacatgtttg taggttataa tattgnntag aacttttctt agtatagatc aggtcatgtg 120
 ggttaactag tgactcacta gggtgaccca tgactcaatg gcctagcacc ctgactgtgt 180
 caatcaccat ctgagtctaa taacatggaa cacatcctat ctacaccact caaatccctc 240
 atgatcaata tgattcatta caggcccaat tactagctgt ataatacatc tgctatagat 300
 gatgtttgat agcattgtac gaattgtaga ttgttcaagt cgaaagatta ctatctcata 360
 atggttgcca tgagaaacaa ttatgacact tacataacta ttatgaagcc ttctcataga 420
 gagcttgccct ttataaatg ttactcctaa tatntatac 459

<210> 3179
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3179

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 tagagnttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120
 aacaccctgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180
 gtgattcttt ccttcctttc atcttcaccc ttgttctttc aaaccacaat tccagaaaat 240
 tcacctctgc ccagaattat ctcgtagcca taactcccat ttacgcact caaatataag 300
 gattcttgag cctaaattga atttcaaac gagacctttc acctcgtttt ggaatcacct 360
 catttgagc cctgtagctt cag . 383

<210> 3180
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 3180

tacttcgggc gtgtattata gagcaacaag gtagcttgat ggattgtttg ccattgattg 60
 agtttactta caacaatagc taccaagcca gtattggtat ggctcctttt gaagctttat 120
 atggacgaaa gtgcaaaact cctaattggt ggtatgatga tggagaagca gtacttcttg 180
 gacctgaaat gctaacaacg attaacgaac aagtgaagtt gatttgagag aagataaagg 240
 catctcacga taggcaggag agctattatg atagaaggag gaagccacta tattctcagg 300
 aaggagaaca t 311

<210> 3181
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3181

gcactatcga agacactata caatgctctt gctatgaagg ataaaatttt gtgcaataca 60
 cgcgctattg tgcattcaat aacgggctaa aatatgtttt cgttctttct gtagaatatt 120

caaagtttat ttttagtctc tgcaaaaaaa aaattatcca tttttcatca ttgtaaaatt 180
 aaaatatgog actttttgat taagaactaa gtttgaacga atataaatct acatggcact 240
 ttttaattta atttttaaaa tacaattttg ggaattaaaa accacaacaa attatagaaa 300
 agaataagaa aaatataatt tgtggcagtt aaaaagcgcc caagtttaat gaaaattcaa 360
 gagtcaccat ggcttttaac taaacaccac cccccaat 399

<210> 3182
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3182

agcttgagaa agtccttctg attttgttta tacttttctg acttgatggc atgagatgaa 60
 atgcaaagat tggacctctt gttagttgtt atcaatgaat agcttaaaca cttgtgcttg 120
 agtgaaacag tagccgtgag attgtgggtt gagctacttt ccttgatatt tgtcttatga 180
 ttaacttcat ataactgtat agttcacatt ttgttctcct atatgtctag ctgcatgttc 240
 tgtgaaaaca agtgataggt acacatttct tcatctttct catcatngca atcaataaat 300
 ttgatgcata cacctttgta cataaacact gcatgttnta ccacttgagg acaagtgagt 360
 tgttctcttt tgcttgagga caagcaaaac tgtaaat 399

<210> 3183
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 3183

tgtgctttga aaattatgtg catggaatat ttttgagttt agaatgctga actgggatca 60
 tccatttcta ttttctagtt tagttattaa ttcataagc tgcggtaaaa ctgggttacc 120
 ttacagttta cattggaggt taaaaaaga taatgacatt tatattatgg gttatttaag 180
 gctcatttaa agttaagcat aggggttgggt tatgagcttc tctctctctc ccggatttag 240
 ggag 244

<210> 3184

<211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3184

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agcttgatct tttagttttt tatctntaat ctttaatccc tgaacgaact attcaagttt 60
gtaattcgaa ctttaattat cttttaattc gttcctaaag atagatcgcc aaatctgttg 120
ctaactgcac attaatctgt taaagatata acagatttat gtgtccagta ttttcgggca 180
agatgtcctg gacatcgtat ccgacatcgt ggatcctgca gcttcaattc ttcatttgac 240
attntatctt gccttgtgca ttgtgcagcc caatctgatt ccttgacata acgttggaca 300
tcatgtgcag caactctagc tttccttcat tatctaagtg cttatggttt aacaaaattt 360
tagccaatct tttaaaactc agtaaagcta agcactaaca atctceccct ttggcanatt 420
tgtctaaaca tac 433
```

<210> 3185
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 3185

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tctcgatata caatagggct taatcggaca tccgagttat tagatattgt cgttagattt 60
ttctcagagc ttccattttc aattacgagc gcctcgatat tcaacgggac tcaatcggac 120
atccgagtca aaagttattg tcggttgaat ttacttagaa gttctgtttt caatttcgag 180
cgtctcgaaa tattataggg ctcaatcgga catccgaatt aaaagttatt gtcgtttgaa 240
tatacttaga gcttttgtat tcaattacga gcgtctcgat attctacagg acacaatcgg 300
acatccgagt caaagatatt g 321
```

<210> 3186
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3186

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cacttcttac aaaactttga ttggaatgtc tctattatga ttgggttggt aagtcttgtc 60
```

atcttctagt tgagcttgag cacaaagctt tgtgagtagt gaagcttctc aattatgaca 120
tgaaggtagc tgggtgagaaa aggaagctcg attagaatga agtggatgaa attcgtttga 180
atgcatacga naatgccata atttacaagg aacagaccaa gagatggcat gaccaactca 240
ttcactggag gcaattcata gaaggagaca ttgttctcct ttataattct aggttgaaac 300
tatctcttgg aaagttaaatt tcaagggtggc ctggaccttt taagggttcag aagggtgttc 360
ttaatggagc tatggagatt gaaagccan aaaactagct cactcacgt tagccggcat 420
acg 423

<210> 3187
<211> 95
<212> DNA
<213> Glycine max

<400> 3187

tctccctaa ttttctataa ataggggagg aagtgatgta tatatagggt cagccccata 60
gacactgctc tctatttcga attcgcttgc aaaaa 95

<210> 3188
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3188

agcttatgct gcanatattt acaacagacc ttcttatcct cagcagcaga atcaaccaca 60
gcagaacaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120
cctcagatgg tccagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180
tggcccaagc agaccataca ttccctccacc aatccaacaa caacaacaac cccagaaaca 240
gccaacagtt gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300
gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360
gggacaatta gctactcaat tgaatcaaca acagtcccag aattctgaca agctgccttc 420
tcaagctgtc caaaacccca aaaat 445

<210> 3189
<211> 332

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3189

tcgatacaga tcaactgaat tttgcactag tgtatattct ccaaattgta gaagcgtaag 60
aatctacaac aatatatcaa agcattacaa ataatctcat agtcaaatat tgcaatgcct 120
ttttccgtta aacagcagaa ggaaagacac ttgcagtcta tattaatcat gttattgaag 180
cttgcggaagt atagtgaatt agtgattagg acttangaga atggcttcaa ctagaattac 240
aactttattg gtagagcata tatatgtatc ttggcataga cagcaacatc tggcactatc 300
catctttagc tatcaataag aaataattta tg 332

<210> 3190
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3190

agctntacag cagattttag taatgaccca ctatctctat aataanataa cttaatgcca 60
ttaacctagg gaattaanaa aaacttaatg gctgagtgt actgaaattg tggcaaccaa 120
aagtcacccn caatagccaa caagtcagcc accatttggc cccccaaaag gctgatgcct 180
aggttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ctttttagtt 240
gattaaccca aaacatattt ttggtcagcc aactntacaa ggattgggcc attatttaga 300
cagactaaac actctaaaat tgaaacaaag tgggtgtcatt tagtcctcct ccatnngggc 360
catgatacaa ctcacaacct tggacttttc tccttgaaac ttgngcttgt attcaaatag 420
tatggacagc actt 434

<210> 3191
<211> 374
<212> DNA
<213> Glycine max

<400> 3191

tagtgaaaaa attccttcga ataatttttt atatttatta tactcaattt taaaacttta 60
tttgagttct attcaacttg accatcaaca cattgggtaaa tattttactt aaatgggtta 120

agtagatttt tagtctttaaa atttttcaaa atttaaattt taatccttga ataaaagctt 180
aactagtcaa gtctcaactt cttttttggt aaaatttttag tctttcaaca aaagcttgac 240
cagatcctta aacttttttaa aaattttatt ttaaattttt aaataaaaagt ttaaatttca 300
ttattttatt tattttattta ttttaataaga ttttagaaat taaaaattaa aatttttaaaa 360
accttgatga atac 374

<210> 3192
<211> 239
<212> DNA
<213> Glycine max

<400> 3192

acacgatgct taaccactca agacagcatc aaaccaataa cagcgcttaa ccccatata 60
ttgtagaatc aacatacctt aaccatccag agtagaagct taacatgggtg cttaaccact 120
tagactgaag caaaacaata tttgaatgct taccacccat aaaggcagaa gcaacacacc 180
aatgcttaac cacaggcaga aatgtgacat ccatacttaa ccaccatgga cagaagcta 239

<210> 3193
<211> 277
<212> DNA
<213> Glycine max

<400> 3193

accttcttcg aacgaaaatt acaacatcct gcttcgttgt ttcctttgct gccactacca 60
cctccttcaa tgagcgaaaa ttgtcaaaat tctcctcatt tcatatccta ttgcccactc 120
cctccaccac cagtaactta taatcaatcc ccttctaccg aaaattctca gagatctcaa 180
acttttcttc aatgtcacaa aacacctota tcgcatttca taagcctccc aatagttata 240
ttcgagcaca aactccttca tatgaggaag ttgatat 277

<210> 3194
<211> 403
<212> DNA
<213> Glycine max

<400> 3194

agcttagcaa gcaacaaaat gctcatttta tttgtatccc aatcaaaacc cagttgcaga 60

tatctctgta aaaggccaag agaatgcttg atcaaaatca tgaatatcta gtaatatatc 120
aatattttaa ggaaacagca tatagtaata gacctaaga aaattgaagg ggaagaagc 180
aaactacctt agaagcaatg gtaatagaag taggaaaatc aaatataatc atttaggtag 240
catttggtga ggctgtacaa aagggtcata gattcattaa ttatgatcct ttgaatgttt 300
aatttgtaag taaagcttta gtggccactt gctcctatag atcacaaaag tagtggtagt 360
agaagaggag agggcaacaa aagcagcaga agtaccagct cct 403

<210> 3195
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3195

agcttaacaa ccataaattc ctattntaca tttaacaact atcaaaattt gactatggtt 60
caattataca ttntatacgc gtctttatct cacttttaca aattgagctc agatccatta 120
tgataactat tacataggcc cagaaaaaat ggggatcatt taagaaaaag ggagataaaa 180
gaaaataata gcaaactcgtg tatggtacct aatagagctt cttccttcat caaactcttc 240
ttccatatac aaattattct caaaattatg tcaccaaaaa attcatttcc ttcttttctc 300
tttcaaatac atttttaaaa ttatttaatg taaagaaaaa atgggcatca ttttgaaaaa 360
aagggtgaga aaagaacata ataacaagga aattcatggt atg 403

<210> 3196
<211> 396
<212> DNA
<213> Glycine max

<400> 3196

agcttgatgt caacaacaac caccttgaag ggaatcttct aaatgaattt tctaattcta 60
acaatctgac ccttatggac ctttaggaata ataggttcac tggaggggtg acccttatgc 120
caccactaca catggctttg ctctctgggt gatgttttga gcaaaccacca ctgaagcaaa 180
tagaaacaaa aaaaaaaca aaacaagaca gaacatgagc acccttctga aaccaaggta 240
caagagtggg gccaatgtgt tcctccaaga tctaaagggc caggttgcta gctagcttca 300

atcaaaatta tgaccaggat atataatact aatacagatt gggctctgagc ctaactggca 360
aagttatgaa tcaatcaggg aagagagaga gacaca 396

<210> 3197
<211> 334
<212> DNA
<213> Glycine max

<400> 3197

gcatgtatga aaatgtacag gtaaagggtga cttaaaggaa ttcattggta ctacctatac 60
caacaatgtg catatacttt ttcgtagccc atcacttaag aacttcatag ttaagtgtgt 120
ttggcataaa acaattgagg attaggtgac cttttgagaa attcctcgag aaatgtgtga 180
gtaagaacaa agtatactaa aaattctttg ctagtattatg aggacaatca acaattccaa 240
aagcaatcat gcgttacaat agtatcctag acatttatat ttcttttgct caatagtcag 300
gaggttatga gagagtacaa tttgaaaaga agaa 334

<210> 3198
<211> 348
<212> DNA
<213> Glycine max

<400> 3198

attatcgatg tttctatcac aatccagtga ttggtgacat ctccatgtgt gtgtacaatg 60
tgattatggg ttcatttcta ggattcattt ggaatatttg ttggtgatta tgaataagtg 120
accaatcttt tttttattta aaatttttgt ctccatagtc atcgactatt aatcttttga 180
tgtgctgatt atcttccaat catgccttgt taaactgctt gataacctat catgttttta 240
cttctgttat gaatagagag agactttgcc cttgccaatc acgttaaggt gtttcgagag 300
gaaatacttg agtaggcatt atccttgcta cttgtaaatg aaagtcaa 348

<210> 3199
<211> 393
<212> DNA
<213> Glycine max

<400> 3199

agcttcttct gcttccgttt ttgttttctc tgccaattca aattcctcct ttctcgggaa 60

aatcttcacg ctgcgttttc ccgggatttc tegtcccccg ttccccgctaa tcgtttcaga 120
gatcgaaacc accgttttcaa tctctgctca attccctcgc ctttccgttt ccccgtagt 180
tcgcaaaagg taaacagaag aaaaaaaaaa caacatcaat ccacacatac cttcgttcat 240
tcattctctt acgacttcat tgttcaattt agggtttcaa aacttccttc tgcggttctc 300
gtgcgttgca ggatccaaaa cacgtgacaa taacaggata tattacgaat ttgcttaagc 360
gtcgtgagga attgcgcgat ttttggcaac ggc 393

<210> 3200
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3200

agcttgtgga gaatgaagtt agggtcattt ccaggcatgt cggatgtgct ccaagcgaac 60
aattgacatt gctcaagagc acttgttcta ctttttttcg tattgcatcc ttcatttgc 120
taccgatttt ggtgcattca tgtgactccg ttctgatttg gaaattctca acaatgtctt 180
caattggggg tggtcacga tcttcagaat ctaatcgggg gttaagatcc tttaatgagt 240
tgacaacaac attgatattg gagattggcg ccttgggtgn tttattgtct ctactatat 300
tgtatgggtc aatcttgcaa ctctttacat agcattcaca agcatccgtc tgatcaactt 360
tgacaatgac aatttccctt gtggatga 388

<210> 3201
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3201

ttggcatttt cctactaatc atgaggaaga agagcagaat gatgctgcag gatcaagtgg 60
agtcatagcc attgaacaac aacaacagca acagcagcag cagcagcaac aacaacaaca 120
acaacaacaa caacaacaac atcaacagca acaatcagag tcttgtgggtt acaactttca 180
gtccaaagg caattgggag ccttcatttc aacacatgtt gacactgacc acatcaattt 240
ccaaaccaac aacaacaact nctcagaaga tctggcctat ccttcattgg tttcaaagac 300

acccttgccct taattaatgg caaacaccac aaaaaggggtg gaataaaaaca ccttctttca 360
atggacaacc aattccacca aaccc 385

<210> 3202
<211> 379
<212> DNA
<213> Glycine max

<400> 3202

atcagcttgg tacatgtaaa attattcccc accaaaaaaa actaagaatt gagctccgct 60
taaaaagaca ataggtggaa tggcaaatca gtgatcttga tgaaatcggg gagcattgct 120
agaaagagag aattggaata ttcatacaacc taagaaaagc aagttctgac tctattaaaa 180
gcattgtatc gaaacttcag accaatatct tgaagatgac tcagggatct ttttgatata 240
ggggaatatt gctaggaaga gagagctcga gtatccatca gcctaagaaa attcaaagca 300
agttcagatc ttcttaaaac caagatttgg aagcttcaaa caaatattag tgaataccca 360
aaattatttt aaacttgaa 379

<210> 3203
<211> 378
<212> DNA
<213> Glycine max

<400> 3203

agcttgccac ccagctcgtc caggcgagca tggttgcttc ctccagaagc aacagccttc 60
tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcactc ccatttttac 120
taagtacacc ccctgccttt tttttggtga ttcttttttc gtaaagttag ggaaacttac 180
gaatttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240
atcatcccct ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
ccatttgatt tctgggtgtg cacggaacct tacggattgt gcaatcaata tttcttttgt 360
tttcggcat gtcccgga 378

<210> 3204
<211> 267
<212> DNA
<213> Glycine max

<400> 3204

acttttatgc tgaacaaatg atggcttgaa tgtgaaaagc atgttgaaat gagaaacttt 60
gaaaatttta aaattggaaa aatttcagaa aatggtttct ttagacatga aggcttttctt 120
tttaaaaaaa acaaattgtg tgtgcctaaa tgttctacta aaaatttgct tgtttgtgaa 180
gcacatgagg aggtttaatg gggcattttg ggggccaaaa gactctataa acattacaag 240
aacagtttta ttggcctcat atgaaaa 267

<210> 3205

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3205

agcttgtaat atcacatcgg cgtgagtcac tgcattccca tctaattgtct tttggtttca 60
atgctattct taactcacca aatgaactct tggaaattaa ttttttgtat gtatgtttac 120
caattttcct agatttaaaa atgtgttttt tcttgagtct gataaattat aagggtgtttt 180
acctgaatga gttacggaat ttttgtgaca atcctatata tgaagaagca tgtgaacaac 240
atgaacatcg ctgataaaaa ctaagtttct ctttttctca ttttgtttat cttcttttcta 300
tgataacatt gatgtctttt ttaatgaatt tgctctgata aacaaaacat atttttgaaa 360
aacagagtta anagaaactt cttttgcgcg gatcgtatca canacttt 408

<210> 3206

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3206

agcttagcca gttgcccata cgtgcttatt ctacacatgt gcacttagcc tgcacttggtg 60
cgcttactcc aaatacgaaa tatTTTanaa catggaattc tttgggctta tgcgagcgtg 120
caagcttagc gcaacaaaac aacatgtgct tgctaagcga acacatgcac attgagcgcga 180
tagcataatc agacaacaaa caacaacaaa catttgact taaatcaact aacacaaata 240
ttcatagagt catgagcata accaaaatca acctaacatc aacacacaaa ccaactaaca 300

caattattaa acaagttaca gaaaagagga gaaagacaca aaccaactaa cacaattatt 360
aaacaagtta caaaaaagag gagaaaaagg gtataaat 398

<210> 3207
<211> 405
<212> DNA
<213> Glycine max

<400> 3207

agcttatgct gcaaacattt acaatagatc tcctcaacct cagcagcaaa atcaaccata 60
gcaaaaaaat tatgacctct ccagcaacag atacaacctt ggatggagga atcacctaa 120
tctcagatgg tctagccctc aacaacaaca acagcagcct gctccttctt tccaaaatgt 180
tgctggccca agcagaccat acattcctcc accaatccaa caacaacaac agccccagaa 240
acaacaaca gttgacgctc ctccgcaacc ttccctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtttc aacaagagac cagagcctcc attcagagct taactaatca 360
gatgggacaa ttggctacac aattaaatca acaacagtcc ctgaa 405

<210> 3208
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3208

agctntgata ccaattgaga agaacatctt caaaatcaca ttacaagtta gttttgtaat 60
tggccttatt ataaacacta gaccagaatc ccatgctttc aatgtaggac ccaagtctca 120
tacctagcaa ttggatccta caagagttgc ttgattcatt attgccgcta ttgtcactgt 180
agaagcactt tctcaccagt catgccatta cagtgtttct aaaggtagcc atataatgct 240
tcattntgct attgatactt gtttttatta tattgactca tgatgtttac atttaaattg 300

<210> 3209
<211> 390
<212> DNA
<213> Glycine max

<400> 3209

agcttcagga tgttcaattg cttcagattg ttgcacagaa gggcaaaggc ctgtgtggtg 60

gtcgacagac gagcataaac cacagagtct ggcgacaggt gcagattttt gattcatggc 120
caggtgggtt accagggttaa ccaaggcatc tagtttacct ttaagctttt tagtctcagc 180
tgatgaagat gaatttgtgg ctactttatg cactcctcta atgacaatag catcacttct 240
ggcactaaat tgctgggagt ttgaagctgt cttctcaatt aaatttctgg cttcagcagg 300
ggtcatgtct cgaagggtc caccactggc agcatctatc atacttctct ccatgttgct 360
gagtccttca taaaaatatt ggatgagaag 390

<210> 3210
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3210

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tttgatcatc ctactaggac gactgaaaaa actggggcaa ataaagaggg tgaggataag 120
ggagaaaccc atgttgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180
tatctttact cagccaataa caaaccttct ccttaccac caccaggtta tccacaaagg 240
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
agcacaacc caaaaacacc aaccaagaag tgaattttgc agcgagaaag cctgtagaaa 360
tcacccaat tccagtgtcc tatgtgact tgctccata 400

<210> 3211
<211> 389
<212> DNA
<213> Glycine max
<400> 3211

agctttgaaa aatgttgttt ttcaccttct cgctaagtca atctgttggc ttagtgagcg 60
tccactaagt gcaacactca tgggctaagc gcgaggaaga ctctggaaga agatgagcta 120
tacaggttcg ctaagcacac cgcttcatct cactaagcgc accgcttcaa ttcacccgct 180
aagcgagaaa ggcacgcact aagccaaaat tctaataatgt gcgctaagcg gtccataatt 240
gtgctaagcg cagcagcagc aacaaggcca cctattttaag cttgaaatca tatttttagag 300

ggagagtttg gactaggatt cagagctttg catgtctaga gtttctagag agagaggggt 360
ccaagttcca gagagttttg agagatttt 389

<210> 3212
<211> 388
<212> DNA
<213> Glycine max

<400> 3212

agctttgatg caacatttgg agagggttaat gaaacaacga gatgatgcg tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaaaaatgat ccggaggcct acttgagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaagaggacc agaaggtgaa gcttgccgcc acagagtttt ccgattatgc 300
tcttgtgtgg tggaacaagc taaaaagga gagagcaaga aatgaagagc caatgggtga 360
tacatggacg gagatgtaaa agatcatg 388

<210> 3213
<211> 290
<212> DNA
<213> Glycine max

<400> 3213

agcttctatc ttcgagtatt caattcatta taactgctac atagtattga acagttttga 60
acgaattgca cgaaaacagg ttgcggtgt tttatagaat aactcaattt caagttgggtg 120
tttttacgga aaacatgttg tgccatttag aattttcctt actttaatac agttacatat 180
tgatctgttg ggtgtgcagt tggcctggag ccgtggattt atagtttcat gtgggatctg 240
attctcaaat ttcgattgac ttggtaagca aaggttattc caaaacgcat 290

<210> 3214
<211> 387
<212> DNA
<213> Glycine max

<400> 3214

agcttctata gaaggttcgt tctaatttc tctacaatcg catcacctct caatgagctg 60

gtgaagaaga atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120
aagaaaagct tactaaggca cctgttctag ctcttcctga cttttctaaa acttttgagc 180
tagaatgtga tgcctctgga gtgggagttg gagctgtatt gttcaagggtg ggcaccctat 240
tgcttatttt agtgaaaaac ttcatagtgc caccctcaac taccacacct atgataaaga 300
gctttatgcc ttaataagag ccctccaaac ttgggaacat taccttgttt ccaaggaatt 360
tgtcattcat agtgatcatc aatcact 387

<210> 3215
<211> 386
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3215

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tatcttaggg atcaagtga caaagagaaa ctgaaagtgg agtactgcta cacatttgat 120
caacttgctg atattttaac caaaccctc aaaggggaga ggtttaaaat gttaaggggc 180
ataattggct tgatgaactt aggagatcag aattaaggga aggtgtgaga gtttaatttt 240
gttttggtg gggtagattt gtttggtgctt tgaatataag agagagtaac agaattttaa 300
aattctgtta taagtactag cctaagtgtg aagggttatt actctgtntt tgcttgata 360
aaagggcata catacatctt aataaa 386

<210> 3216
<211> 366
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3216

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tagganatat gatacgccat ccactataga ataaccatt gtatgagaag cttcaccatc 120
aagagagtgc cttggataaa atgcttaaaa aagaagcttc aatgggtggaa gagaatgaca 180
tagagagagg gggggggggg cttatctcat tccatcctat tctcggttatt gctgtctctc 240
tctctcccct actcatctgt acattcctta ttatatacac cctgttactc tacaccagtg 300

tcacaatctc ctatgtttat tatectatca tcatcatgta actattagtt gtgtactttc 360
tctacg 366

<210> 3217
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3217

agctttcntc accactagat ttctgagcaa ctcttcttc catatttcta tgagggactt 60
aacaaaatgg agaggagtat gattgatgct ggcaatgggtg gaacccttgg tgatatgact 120
catgctgagg ctaggaatth gattgaaaag atggcttcca actcccaaca attcagtgca 180
agaaatgaag ctattgttct tagaggaagc catgaggtgg ccacagattc atcttcatct 240
acagaaaata aaaagctttg aggaaaactt gatgccttgg tccacctaata aactcagctt 300
gccatgaatc agaaatctac acttggttga agagtttttg gtctatgttc ttttgcagat 360
caccatacag aactatgtcc ttctttgctg caatctggaa tcaatg 406

<210> 3218
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3218

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ggaaataatt caagggtagg tccaatttgg taagaagttt ataagaacaa aattggccta 120
atcatttcca aatatgcatg tgaattagga agcatcaaca agaatacaagc caaggctatt 180
gtgcaagcaa tcaatggggc aaaacacacc aaaagattat gatgatggat ggctcanatt 240
ctcaaaaagg taaacttatc actttcaaat tgagcttcca aaactatcat gacatgtaga 300
ggaaaaacat ggatttcaaa tcacaaaatg tcaagagact tttattttca gaacaattac 360
ccattttcttg aacatatcct ataattcaaa gaanaatatg 400

<210> 3219
<211> 107
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3219

tgcttgagat gaggaagtgc gaaggattaa acttcctgct tttattgccg accacagagt 60

ggtacctgta gatatgtcgc gngggtcagg agaccttggtg gacgtta 107

<210> 3220

<211> 358

<212> DNA

<213> Glycine max

<400> 3220

aatttctccc acacttttgg ggagggccat tgctggatgg ccttgaatat actagggtac 60

acttggaacc tatttctacc acctacaaaa cctaagaaaa ctattttatc tacacataag 120

gtactcttct ctatatttgc atagaggggtg ttttccctaa ggactgaaag aacttgcttg 180

agatgtccta agtgatcatc tacgctccta ctatacacta aaatatcatc aaaataaaca 240

actacaaatc tacctatgat atcccttaag acatgatgca taagcctcat aaagtgcttg 300

gtgcattatg gagcccaaaa ggcattacta tccttcttac aaaccacact tgggtcttg 358

<210> 3221

<211> 249

<212> DNA

<213> Glycine max

<400> 3221

agctacaata taaagatggc ctcaacatat tccttatttc cagaaggaaa ctctatcaat 60

aaacctccaa tctttaatgg agaggggttac cactactgga aaacccgaat gcaaattttt 120

atcgaggcaa taaatctaaa tatctgggaa gccattgaaa taaggcctta tatacccacc 180

acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240

cctaaagat 249

<210> 3222

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3222

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tttaataactt ttttcggtct ttttacatga agaaaaaaaa aacatgagtc cattttgttg 120
gtcttaattc acattaaata ttgcagtatt atggttacta cgtaaatacat ttaattctga 180
gtatttttta aataattttt taatttctga cattattaaa attaagtaag ttgcctattt 240
gtaaggacgg gaaggaatat gtattgaaat gacccgaagt ataatacaaa acctacctaa 300
naataaactg tctaatttct caaacataaa cctgtcaaaa gtttctttga agcatatcga 360
atcaatgaga tggattgggt caaaaacacc ccta 394

<210> 3223

<211> 266

<212> DNA

<213> Glycine max

<400> 3223

agcttcaaca cctccctttc gatgttattg tgctccctac tctttagatt gaattttgga 60
gtttttctca ttgaacagcg ttttccagtt tagtgatttt tgaattgtga ggttcgatga 120
tgttgatatg agcatgaatt gaagggataa atgaataact tggttgtgtg ttgaagtggg 180
aatattgatt aattacgttt tttttgttgg tgagtttatg catatgatgc ttcgagattg 240
catatttctg atgcggatgg agagggc 266

<210> 3224

<211> 403

<212> DNA

<213> Glycine max

<400> 3224

agcttgataa cccattcttc tttccttatt acatgatgca taagcctcat aaaggcgctt 60
ggtgcattag tgagcccaaa aggcactact agccattcat acaaaccaaa cttggtcttg 120
aaagcggttt tccactcatc accctttttc atcctgattt ggtgataacc acttttaaga 180
tcaatttttg aaaagggtatt ggcacatgc aactcatcaa gaaaatcatc aagtctagga 240
atggggtgcc tatactttac agtgatgttg ttgatggccc tgcaatctgt acacattctc 300
catgtaccat cttttttggg caccaacaac actggcacaa cacatgggct taggctctct 360

tggaccaaac ccttctccaa caattcttta acctgagact cta 403

<210> 3225
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3225

agctntagtg actgtgtgca accacatatt ttacattgag tgttctcttt gatatgttct 60
acagttgatt ttgcacaaat ttctaattgt cataacatat gattcatgaa aacaatggag 120
gactttccca aaaactagat gagttcagat gtttttgcac ggacttgata aaaaaaacat 180
ttgaaacact gatttgattt gaatatggaa acaagcctta agtttttagtg attgtgtgca 240
accatagatt ttacattgag tgttctcttt gatatgttct acagctgatt ttgcacaaat 300
ttctaattgt cataacatat gattcatgga tatcatttag gttttcttgc tttctttaca 360
ttttaagcca ctggccaaaa agttatccc 389

<210> 3226
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3226

agcttgatag gaagatctgc tgagagcttt tgcttttgta aaagttntaa aaaaataacc 60
aaacactctt aaaaaataaa aaagatcttt tttcagtaga taagataata aaagatcttt 120
tgggccacat ccaaacgggc ccgatatatg atcagattgt atatatacat taacgttgta 180
tttcattctca ttttcatttt attttattgt tcgattcttt ttattacatc acttattata 240
tttataaact ttttagttta aatatatttt ttccctatat tatgatgata ttattgtgta 300
tcacattagc acaaaagtca tatcattgac cgacatatca tcattacaaa aaaaaattaa 360
aa 362

<210> 3227
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3227

agcttcaacg ctcatataag aaacatctat aanatttata tctgatttgt aactcttaag 60
caaacattct aaaatgacaa ggaatagaca taagtaaaaa aagtatagat ggattcacac 120
atttcacctt aaaccttcta tattgtttat ttccattata ataagtaata atcaatcttc 180
cacttaagat tccccaaatt taagaagatt tacacactac tatgcttcca atcctacaat 240
aaacttattc attttgactt accacctaag aagcaaaaac aatggacaca agcacaacaa 300
actcatttac cagattcaaa agtaatacaa aattgaaatt ttaattgaac ttacaatggt 360
aaaggaaatt tgaagcatgc atagttatta aattagatgc aacta 405

<210> 3228
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3228

agctttctga agttttctgg ttttctaatac attgaaaact tgtgctattc atccttttta 60
ttctcttctc cctttgccaa aaagaattcg ccaaagacta atcgctgaa ttctttttgt 120
gcctctcttc tcccttttcc aaaaggacga aggactaact gcctgaattc ttttgggtct 180
cccttctccc ttctcccttg tcaaagaatt caaaacgaca tagtccgaga attccttttga 240
ttcttcccat tccctaatac aaaagcgctc anaggtttaa ccgcatgaga attccttttgt 300
atccccattc acaaagtata aaaggtttaa cagcctgaga tctttgtctt aacacattgg 360
agggtacatc ctttgtggta caagtagagg gtacatatc 400

<210> 3229
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3229

agcttgcaact aagatttctg attcaggctc ctaatgtatc gagacattgg ttattgaaca 60
atggaaactc ccgagaaatt aaaatcgta ttacttttca ctgggatgac cgattcaggc 120
acttcagata tcgagacgct cgaaattgaa caacggaagc tctcgagaat ttaaaatggt 180

cattacttta cacatggagg tccgattcat aaacatcaca tgtcgagatg ctcgaaattg 240
aacaacggaa gctgaagaga atttcaaag gtcataaactt ttcacttgga tgtccgatnc 300
aggcgcatca tttatcgagg cattggttat tgaaaa 336

<210> 3230
<211> 130
<212> DNA
<213> Glycine max

<400> 3230

agcttcttga acgggatcaa tatattcatt ggcataagatt aaaggatgat tatgtggtac 60
gtgatatctt ttggtgtcac cctgatgcag ggaagttata ccacgcatgt aaattgaagt 120
tttgatagat 130

<210> 3231
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3231

agctnttgca agctggaatc atttatecta tctccgatag ccaatgggtg agtcccgtcc 60
aggtagttcc aaagaaaatc ggccctaccg tgataaaaaa tgagaaggag gagttgattc 120
ctactcgagt gcagaacaat tggagagtat gcatcgacta taagaggctg aaccagggtta 180
ccaaaaagaa ccattttcca ctgcctttca ttgaccagat gcttgaacgc ctggcaggta 240
aatctcacta ctatttcctt aatgggtttt ttggttatat gcaaataact attactcctg 300
aggatcagga aaagaccaca ttcacctgcc ccttcggcac ttttgccat aggaggatgt 360
ctttcggcct gtgcaatgcc cctggtacc 389

<210> 3232
<211> 389
<212> DNA
<213> Glycine max

<400> 3232

agcttgccac ccagctcgcc caggcgagca aggtggcttc ctccagaagc aaccgccttc 60

tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgcaccc ccatttttac 120
 taaatacacc ccctaccttt ttttttggtg attctttttt cgtaaagtta cggaaattta 180
 cgaattttgt aatgatactt gttttatttc cgtaatgtta cggaaccttg cggattacat 240
 aatgatccct tttttgactt acggaatggt acggaacctc actaattgtg caacgatgct 300
 tccttttgac ttccggtgtg tcacggaacc ttacggattg tgcatacaata ctttcttttg 360
 atttccggca cgtcacggaa cttcacaaa 389

<210> 3233
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3233

agcttattat gatacaatat tgagcttatt taacaagggc gaatgttatt ggagctaaat 60
 cttgtatcct aaccagcctg ctctatggtc gaatctgcag tcacacattt aacttaaagg 120
 tgtggaggct ttgaaagccc aatatttgac cacaatcagt ctttgcaaag actaaaacaa 180
 ctcacaatct tgtaaacatc acgcataaaa ttatgaaggc tttggaaact caacctctaa 240
 ccataattaa tatttacgaa gatcgaataa cctacaaagc attttgtaca acctcataac 300
 aaaacattgt gttnggggtt accccatagt tgatttcatt attattagtg taatattaaa 360
 tgcttacaga gaacttgata ataataaaa 389

<210> 3234
 <211> 299
 <212> DNA
 <213> Glycine max
 <400> 3234

agcttgccct ctatagtagt cgtaactctt gcacgagcct tagtgaagaa cttcatgact 60
 attacgaagg aatgcatagg tcacatctta cacctcactc ccatagagga gagaaggaaa 120
 gaaagcctca agaggctaac attaacctcc catacttcca ggggaaggac aatctacagg 180
 ctaacttagt tttggaaaaa gggcccagca ctttcttaaa aagagagccc cgcccagatc 240
 tatgggctct cactcttatc caaagaaata ccaaggtcaa ggcactttaa ggggtgacac 299

<210> 3235
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 3235

agcttctaag aatcaagatc aagattcatg actcaagatt caagaatcaa gagaagactt 60
 aatcaagata agtatgaaaa agttttttca aaaactgagt agcacatgga tttttctcaa 120
 aacttgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgcaatcga 180
 ttaccagtag caaaatgggt ttcaaaaagc tttcaactga atttacaacg ttccaattga 240
 tttcaaaaag ctgtaattga ttacaatggt ttggtaatcg aatacc 286

<210> 3236
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3236

agcttataag aaanaaattg cctaaattat ttccaaatat gcatgtgaat taggaagcat 60
 caacaagaat aaagctaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaag 120
 attatgatga tggatggctc aaattctcac aaaggtaaac ttatcacttt caaatcgagt 180
 tttcaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatacaca aaatgtcaag 240
 agacttttat tttcagaaca attaccatt acttgaacat ttcctatatt tcaaagacaa 300
 acatgcaaat ttaacacaac aaaactaaca aaattaaact agaaccaaac aaaactaaca 360
 aaattaaact tatttaacac aactaacaaa 390

<210> 3237
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 3237

agcttcacat aatttttttt tcacaaactt tagtttttga agaccaatta ctaaattcttt 60
 cctaactaga tgattgagat gatgcatggt tatgtgtgca gtcctacaat gccacaacca 120
 agaatcatct ttcttactta ccaaacaact cagttcatga aacgatgcat gttcaatggt 180

taacatatag atattaccta tccttttacc aatatggaca acctcactgg atatggcttc 240
 actagtaagg caacaattct tgttgaattt gattttgaag cctttgtcac atagttggct 300
 aatgctcagg aggttatgct ttagtctatc aacatataga acattctttg tttgtgtttt 360
 gtactaattt ccaatat 377

<210> 3238
 <211> 287
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3238

caatggggtt tgactttttc aaaattgggt tcaaggtttt cttaaagtcac actcttctaa 60
 atggtccttc ttgaccaga catgaaagag tctataaaag caaggctttt gtttgcattn 120
 taagacaatc taatcaatcc aatacaatct tttaacagcc ttgaatctct ttgaacttct 180
 tcactttttt tgtgccaaaa gctttccaaa agtttctggt tttttaaac ttgaaaactt 240
 gngttattca tccttttcat tctcttctcc attttccaaa atgaatt 287

<210> 3239
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 3239

agcttcttat ccaacgctca tcttgggtgg gaagctcctt cttccatggc ttattcccta 60
 gtggatggcg cctcctctcc cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
 aaccaccatt aaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
 gcaagcttcc atcaatagtt gcgtgatagc ctccctctcg gttgttctcg cacagttggt 240
 cacccttcaa tatcaggggg tggcccagga actgataaaa ggaaacggtg gccccataac 300
 caggagcgca agtcttgggt aagcatttaa aggcaaagga ccttaaattc tcttaagggtg 360
 cagatgtgga gccctctgaa agcgaggatg cgtagccctc taaagg 406

<210> 3240
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3240

agctntatca aatggatggt aaaaggggtt ttctaaatgg cttaattcat gaagaagtat 60
atgttgaaca acctccataa ttgaaataa cagataagcc aaatcatggt tatagattga 120
aaaagacttt atatgggttg aaacaagccc caagggcatg gtatgaacgt ctaagtaaata 180
ttcttttaga aaaagatttt tctagaggaa aagtggatac cacactattc ataaagagaa 240
agtatgatga tattatgtta gttcaaatat atgttgatga tataatattt ggatccacta 300
acgattcatt gtgcaaggag ttctctcttg atatgcaaag cgaacttgag atgtcaatga 360
tgggagaact aaattacttc ctgtggttac aaa 393

<210> 3241
<211> 402
<212> DNA
<213> Glycine max

<400> 3241

agctttgcgg atttgggtctt cgccagtgaaggatcgatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa atgaagaggg tgagaaagag 120
ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaaccaaca 180
gtgtcattac tcagtcaata acaaacctcc tccttaccga ccaccagtt atccacaaag 240
gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgacga agaccacctt 300
tagcacaaac caaaaaaaca ccaacaaaaa ggaattttgc agcaaaaagc ctgtaggggtt 360
caccacaaat tccgttgtca tatgctaaac ttgatcccat at 402

<210> 3242
<211> 322
<212> DNA
<213> Glycine max

<400> 3242

agcttcttga acggcatcaa tatattcatt ggcatagttt taaggatgaa catgtggtac 60
gtgatatctt ttggtgacac cctgatgcaa tgaagttata caacgcatgt aatatgatgt 120
ttttgataga taataacctac aaaataaaca ggttctaact cccactactt gactttgttg 180

gtgtgacacc aacggggatg acattgcttg ctggatttgc atatctggag gctgaacgtg 240
 ttaataatgt ggtataagct ttataacagt ttgaggtttt tttttaaaac gcgatgtctt 300
 tcctggagtt attgtgattg ac 322

<210> 3243
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3243

agcttgtctc cctaagggag aaaggaagct cgtctccttt ttcttctctt tgctgcgtgg 60
 atgggtttct ttttgtggct tcattgcgga ttcttagggg ttgaagggtg aaaaaagctc 120
 tatctcgatc aatggaggcc gaggcagaga acaacgacgt gaagaaggaa gaaaacatct 180
 ttgataacca caacgacaac aacaacaaca acaacaatga aagtgacaac aaaattagga 240
 attcgagcga ggggtctgagc aagcccaagc gtcaaatgaa gatgtcgttt cagcttgaaa 300
 tgctcgagaa agcttatgtg ggtttgttat cgctaacctt tcttatttta ttttttttct 360
 tgggtcaattt ctagggnttt ttattgctca tttttt 396

<210> 3244
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 3244

agcttgcatt atggtattta ttgtggtttc aaatatattt ttgcctgagg tctggttatt 60
 accatgagac aagagatggt gcccaatcat cacatcaatt tgctcctttg gtacatactg 120
 tggtcactac ttatttacta atttatgatg tagtctttct taataattta cttatttctg 180
 acagttgaca gagtggatta ataaaggagg gatggtacca gaagagattg cagctgccgc 240
 agcatctgag gaatgtgaaa gaatattgat tctcattacc cattgactta tgaaattcaa 300
 gtacataaaa aatttataca aaaaatatag aaaataatgt ttaatttcca actatcaaag 360
 ggtataaatt gttggtggtt ccttatattt t 391

<210> 3245
 <211> 395

<212> DNA
 <213> Glycine max
 <400> 3245

agctttaaaa tttgaattaa aacgttcata aactgctggt aatcgattac tatatatgtg 60
 taatcgatta cacagtgcaa attttgaatt taaattttta tagctgttgt aaatcagttt 120
 tggccaccgg taatcgatta catcctctgg taatcgatta ccagagagta aatttggtga 180
 aaaagacttt ttttaacttaa aattcttggc caaacctttt gcaatttcaa ttggaattcc 240
 cttcctatatt aatatccttt ctaagactct atagactgtc ttgatcatcc atcttgaata 300
 tctttaattt ctttgtcttg aataaagctt tgagacgcat gtgaaacttt ggcacatca 360
 aaacattcag ctttatcctt tgtctacaaa tttgg 395

<210> 3246
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3246

agctnttaac tgggaaagtc tctcatatac tttntgagat gtttaaggat gtctgaaatg 60
 aaaataaaag gtcattattgg attggaagat ttgtctaaaa caatttggtta ccacattgga 120
 atgcacctgg gtatcgttcc aagtgtgcgc aagcaacaaa taaaaataaa aaaattgggc 180
 atctgaagaa ggggtgggtgt atgcgcataa gtggttctat tagcttggag tatcacacca 240
 ttcgctttgt atgtacgtta aaaatataat acatacttct ttgtacttgg ttaatttacc 300
 acttattttt ttattttata atgtttgtta atagtcagag acgctggggtc gattggcata 360
 cacatatgag ctctttcagc aaatcatt 389

<210> 3247
 <211> 357
 <212> DNA
 <213> Glycine max
 <400> 3247

agcttctttt ggaccttgaa caagcaatta actcctcttt cagaaccatg ctatgtgctc 60
 gcgactgggtc tctttcttcc ctlogcaact tgagttcact attgctaccc catagagctc 120

cgcgaaatth gttccggcca tactcttcct tgcgagccct cttgggtctct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgtc acctggcaca ctccttccga acgtgtgtag 240
cggccaactt gaactttctc tttgcaagtt ttgcttttcc taactcgcta ttgagagctt 300
ggactttctc gtcctcttcc ggtgcttcaa aactctcttc gctgacgact ttttaact 357

<210> 3248
<211> 385
<212> DNA
<213> Glycine max

<400> 3248

agcttttgtc gtttgaatth gctatgagct tctggtttct attacgagta actcgaaata 60
ctacggaacg cagtcaaaca tccgagtaaa aagttattgt catttggatt tgctcaaaga 120
ttctgttttc aatttgaagc gtctcgatat attacaggac tcaattggac atccgagtta 180
aatgttattg ccgttttaat ttgttacgag cttccatttt caattacgag cgtctcaata 240
tattacggga ctcaatcgga tctcctagtt aaaagttatt gtcatttgaa ttgctcaga 300
gcatctatth tgaatttoga gtgtctcgac atactacggg actcaatcat acatccgagt 360
aacaagttat tgtcggttgg atthg 385

<210> 3249
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3249

agcttatggc ggcaaaggat aagctactct acctgaagca tgttgatggt ggtgtttaag 60
aacactgtat ccttgaaaag caaaaaaagg tcagcttctc aagggcaggt aagactccta 120
aagttgaana gctagaattg gtgcacacaa atgtttgggg gccagcccca gtgaaatctg 180
ttggaaactc acgctattat gtcactttta tcaacgagtc taccagaaaag gtatgggttt 240
atthttctta aaataaatct gatgtgtttt ctgtgtttta aaggtggaaa atagaagttg 300
aaaatcaaac aggtctaaag gttaaaagtc tgaaatctga caatggtagg gagtatgata 360
gtcaggagtt taaagacttc tgttca 386

<210> 3250
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3250

tgcaagctng aaatgaggaa gtgtagaagg gtgagacttc ctgcttttat tcgttgacca 60
 cagagtggta cctggagata tgtcgcgggg gtcagggggc ttgggggacgt caggtgggggt 120
 gctattgccc aaaaccaagc ttgaccaatc ccgacccaac ccgagcatag tcagtcagtg 180
 agaacctgtg atgtacctaa gcaggcgagc tccgggcagt caacagataa aaggaacaaa 240
 gaccacaaag caaggaagct tgtgtgggtg ctggccagct gtgaatctta tgtgatatgg 300
 gttatggcct ctggtaatcg attaccaagg gtgggtaatc aattacaagg cttaaaaatg 360
 aagacaagag gctaagatgg tctctgataa tcnattacca aggggt 406

<210> 3251
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3251

tgcaagcttg cagaattggc cttcgccagt gttatgatca atgtgggtcc gaaaagaggc 60
 aaatntgatc atcctactag gacgactgat aaaactgggg caaataaaga gggtgaggat 120
 gagggagaaa cccatgctgt gattgccatt cctgtacggc caagtttccc accaacccaa 180
 caatatcttt actcagccaa taacaaactt tttccttacc caccaccag ttatccacaa 240
 aggccatccc taaatatacc acaaagtttg tctaccgcac ttccaatgac gaacaccacc 300
 tttagcacia accaaaaaca ccaaccaaga agtgaatttt gcagcgagaa agcctgtaga 360
 attcaccaca attccagtgt cctatgctga cttgctccca tatctactt 409

<210> 3252
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 3252

aggcgggaga tatatcgggtg taacgatacc taatcactca ttctatcttc tctcctccgg 60

caccagtgcg cgtgaacttt ggaccgggta tcctatgacc gagctgcatc tattgacaag 120
 ggaacggggg ttagggagcg caatcggtct cacgaatcgc ggccggagac tacatcacgt 180
 ggacactcaa ggcgaaataa tcgccggggg gccaacactt gaacaattgg gtaatttgag 240
 gggacagaag gtcatatcca cgctcggtcg cactccacat tgcaatgccg gccctggaag 300
 cgaggaactg ctcagctgag tgctggaata ttgaatgggc ctcaaactt ctccattgct 360
 aagaccagcg atcatgcctt gtgggtggatc caaaccaatg gcccttataa ttaaggggcc 420
 taaggaacct taattgattg cttaatagac cttcaac 457

<210> 3253
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3253

agctntgtga gcttcaaaag ctcagcatgt tcaactacct gaagaacatt gcaagttgag 60
 ttctgcaagg taagaacagg gattgcaaag attgagtgtg cagttcttcc ctcagacaac 120
 aataaggatg ttatgccact tgatgcaact gttaaaataa tatgtccctt tgaacgaaat 180
 gcagaggcta gtgtcttccg catgaaagtt tttcaatccc cctataacca taaaggaaga 240
 aaatgccacc atattgcata ttaacatcat tcattactat atcaaagata cttntttgct 300
 catctgcacc aaggaaagtt gaaaatattc ttaattactt aagatatata aataattgaa 360
 tt 362

<210> 3254
 <211> 244
 <212> DNA
 <213> Glycine max
 <400> 3254

agcttatttg ggctgtggcc aggttagatg aagtatttgt agagggaagc tcattctcga 60
 tagggtttga gtttgcggcc gcattctcgg cttcaacgat gagaatgaaa aacttagagg 120
 agcaccggtg ccctcgagag aacttctcat tgcagttgaa gcacaaaccc ttttcttggc 180
 gtatcgcat tttttaagt gacaggcggt taaaaggagagg gggatgtggg ttggctggaa 240

gcga

244

<210> 3255
<211> 394
<212> DNA
<213> Glycine max

<400> 3255

agcttgacac cattgcttgg tgctttcatt gctgattctt atgctggaaa gttctggact 60
ggtagtggtg cttccatttt ataccagata gtaaagatcc tctcccgact ctttttctta 120
tgattgacaa gtattactta tatatcaa at ttaacttct tgggtgtcca atcatgtatt 180
ttgtattctt accattcgag aaaagtagaa tggtatctgc agtgatatgg atattattat 240
tagggtaatg gagctagagg atcaagggaa ccccttccct aaccctaatt ttattgaaaa 300
ttgtatcgga atattttggg ttttattggg tagctattat gaatattttt attaggtttt 360
aatagtgaga gaaatttaaa tttagtatct cttt 394

<210> 3256
<211> 391
<212> DNA
<213> Glycine max

<400> 3256

agctttgcag atttggctct cgccagtgaaggatcgatg tgggtctgaa aaaaaaaggc 60
aaatttgatc atcctactag gacgactgag aaaactgggg caaataaaga gggtaggat 120
aaaggagaaa cccatgctgt gactgccatt cctgtacgac caagtttccc accaacccaa 180
caatatcttt actcagccaa taacaaacct tctccttacc caccaccag gtatccacaa 240
aggccatccc taaatctacc acaaagtctg tctaccgcac ttccaatgac gaacaccacc 300
tttagcacia accaaaaaca ccaaccaaga agtgaatttt gcagcgagaa agcctgtaga 360
attcacccca attccagtgt cctatgctga c 391

<210> 3257
<211> 280
<212> DNA
<213> Glycine max

<400> 3257

tcaagcttct ttatatatat atatatatat atatatatcc ctttggcgga tcaaaataca 60
 taaaaaatat tctgagcctt gtggacgaga atctagaggg taattcgaag aaaaagatca 120
 tcgtaaagca gttcgtagct attctgttgc ttagagaaaa tgattaattt ggacttacca 180
 tgttcactag agcagacttg gctttaactt ttttagacag gctcaaatta attccatgtt 240
 ttattatcaa attgatatga agcacatgat caaatctttt 280

<210> 3258
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 3258

agcttatgcy catacttctt cacgaacgtt cacttacact agacattctt ataactaaga 60
 gaaatgcacc catatacaat caaggcacct tcgttaccta gattatttac atgtacttcc 120
 aaggagtatt tgttacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180
 ctctaagcac tttggctatc gaagattgca tatgcgcaaca ttcttggtat ttttataacc 240
 tatcataccc aaacttatga taatcttgac tattacacaa aagggtact ttatgctctc 300
 tttttttttt ttcaaggggt tactactaaa gccattcaa attaagtatt ttttctttgg 360
 tactaaa 367

<210> 3259
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3259

agctntgaat tcattctatg cacccttatg ggtccattct tgctttgtat gttttcatct 60
 tcattcttct actttcagta tttcttttct tcgttttaag cgagttttga ccgatcgttt 120
 aagccgtaat ttcacttaat cgatgtttta aggaatttca atcgatcggt tgtgtggtaa 180
 tctcgtttaa tcccccttaa aataaaatcc aactgatcat tcatgtcgta acctcggtta 240
 aataaaaaaa gcaaaaataa taataaaata atcaaaatat ctgaaaataa tattataata 300
 atagaataat aaaaaaacc caatcggaca ttttactttt gaaagttcct ttaaatgagc 360
 tgatnnatat aaagtgaat taa 383

<210> 3260
 <211> 166
 <212> DNA
 <213> Glycine max

<400> 3260

agcttctttt ggaccttgga caggcgatta actcctctta cagaaccatg ctatgtgcac 60
 gcgacaggaa ccttactttc cttagaaaca cgagataact atagctaccc catagagcta 120
 cgccataaat gttacggcca tactctttct tgccaaccct cttggt 166

<210> 3261
 <211> 175
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3261

agcttgaaga aattnttaga ggaagaacaa gtcacatcaagt gtatgaaaat ccaattctcc 60
 tcaagagaaa gaagaactta gagaggaagg gagatgagta tgaaaagaat gggaggaaag 120
 ggaggctggt acgctttaca tttgggaaag aagggatggt tgctatttgc atgtt 175

<210> 3262
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3262

ggctgcagct gtcgttgaat ctagacctgt gttttgttga aactaaagat atatttgaac 60
 aagctgaaat gattattatg gatgaaaatg ttgtcttatt taactttctt atgttaatag 120
 atattgtatg gtgttataat aatttggttt ctgattatta cctttggact atgatttttg 180
 ttcttgcagg ttgacaagat tcatgtcctt ataagaaaag aggagttaaa gacatggaaa 240
 ttgactctaa aggagaacaa cacttatatg atgcacaact ntaaaatttt taacaacgag 300
 ggccagtata agctatgttt gcatccatat aagttgattn ttactggtgt cactattgtc 360
 atagaagtgg accttcctaa tatcccttta aaggcatatg ag 402

<210> 3263
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 3263

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agcttccatc acctcgggtt tctttaactt cgtgggacac ccttttcagc acaagggtccc 60
cctcattcaa cttgtggggg cgcaccttct tgttgaacgc gttctttatc ctttgttgat 120
acaggcgcct atgggtcatg ggcgtcaaac gcttaccttc aataagggtg agttgggtcgt 180
agcgtgtttg agccactct gattcttcta ggcccgatcc tgctagtatc ctctgggaag 240
ggacctctac cttaaacggg agcactgctt ccatcccata aaccaaggag tacagtgttg 300
ccccagtaga atttcgtacc aagggttcgt acccatgcag ggcaaaaggc aacatttcat 360
gccaatcttt gtacgacact gtcataccct aatttcgtcc aagga 405
```

<210> 3264
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 3264

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agcttgccgc cacggagttt ttcgactatg ctcttggtgt gtggaacaag ctacaaaagg 60
agagaacaag aaatgaagag ccaatgggtg gtacatggat ggagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctt caaaaactaa 180
ccccaggcaa caaggggttg aggagtattt caggaaattg atgtgctcat gattcaagca 240
aagattgaag aagatgaggt gatcaagata taaccaaggg caaggaccat gaagcacttg 300
```

<210> 3265
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 3265

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agcttgcatg attcacataa gtctattatc aaacgggtta attcagttgg ttgaataaag 60
tgtgagtgtt ataatatcgt atttgtcgca acctaacatc acaacgggac gacgaaagac 120
aataaaagag attttttttc ctaagaagga aacgagaggg agtcgccact aacatttatt 180
taggggaaac gttagaaaaa caaaaaagaa agtctgtgaa atttgaaaag agaggttcgc 240
```

ga

242

<210> 3266
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3266

agctntggaa aatgatntgt atacaaaagt tagtcgtatg aagcgactaa cacacctcat 60
gcattatagc ctcaaaacca acgacaggca atgtaaacaa gggagaattt tcctaaaata 120
tttagacaaa gttatgttgt gaaactcaaa gtagaaaaaa ataggcaatg catgtctttt 180
aagttttggg aaggctatgt aaacaaggga gactttgccc aaattttcct aaaattttta 240
gacaaattta tgttgtgaaa ctagaagtag aacaaaatag gtaatgcatg tcttttaatt 300
ttagtgtgag catatgctat tgcctttagt gttttggaaa atctaaccat tttatttttg 360
tgaaacttgt cttaaattaa attgacacac aatga 395

<210> 3267
<211> 387
<212> DNA
<213> Glycine max

<400> 3267

agcttgtcat aggetcaata ggttccttca attcaatgaa ggtcctagtc accattattg 60
acaatcaact ccttttcaaa agaatcataa tatatgaaaa tttaacttac caacttgggc 120
gtaacaaatg caacacacct tctccgaata aaacaaaaac ttaataaagc attcataaat 180
caatattagt tccttcatt ccacaattac caacaataat caccactctc attatgaact 240
tgtacaaagt acaaacaaac caagaatacc tgatcttagc atctgcacaa aaagactcaa 300
tgcttgagag gcataccctc tctgggaata agctgatatc atagccgtcc acgacaccac 360
attcctctgc ggcattacat caaacac 387

<210> 3268
<211> 288
<212> DNA
<213> Glycine max

<400> 3268

agcttgttgt tcggcatggt ttttatgtat tccattgcc a tgcattgctat gatggaacaa 60
agatgattcg cctttgtttt gtttctgtgc caatctttaa tgtagatgc ataattcttt 120
tcttcaaata attagttttt aatgtaacta caatacctat gtaagtcttc atctaccttt 180
aattattgga tcatcatcct tttggtgaac tctacatgaa accataaaaa aaggaattct 240
atgtgaatgg aaatttcaag attgtccttg aaagacatta tggatgct 288

<210> 3269

<211> 124

<212> DNA

<213> Glycine max

<400> 3269

agcttgacta acaccaatat gacaggtttt acaggctttc atcaaagctc ttaacaaata 60
acttgataaa gccataaccc tagtaaaact accactctta tttccaaaac ccatcccttg 120
aaat 124

<210> 3270

<211> 159

<212> DNA

<213> Glycine max

<400> 3270

agcttctttt ggaccttgta caggcaacta actcctcttt cagaaccatg ctatgcgctc 60
gcgactgggc cttttcttcc tttcgcaact tgagttcact attgctaccc catagagctc 120
cgcgaaattg ttccggccat actcttcctt gcgagccct 159

<210> 3271

<211> 297

<212> DNA

<213> Glycine max

<400> 3271

agcttcccgt atccgtactt ggaaggatct gattactgcc ttctaaggc aatatcagta 60
caattccgat atggctcccg accgcactca actgcataat atgttcaaga aagaggggtga 120
aacctttaa gaatacgcgc agcgggtggag agatttggcg gcacaagtag ctctcccat 180

ggttgagaga gagatgatca ccatgacggt agacactctg ccagtgttct actatgagaa 240
gctagtaggt tatacgccat ccagctttgc ggacctagta ttcgccgggg aaagaat 297

<210> 3272
<211> 272
<212> DNA
<213> Glycine max

<400> 3272

cccgacgaag acactgacaa aaacttatct tctccttttt ggacaaagta tgacaagcag 60
ggggcaagta aattttcttc ccatcagacc ttggatgcaa gtgtgatcgt atccccatct 120
catctagatc ttgacgggta ttcaagtcac ccttcacctt gccttgaatg ttaaggagca 180
tcccaatcac attgtcacat acatttttct ccacatgcat aacatcaata caatgtctaa 240
cgtctagatt agaccagtcc gaaagatcaa ag 272

<210> 3273
<211> 258
<212> DNA
<213> Glycine max

<400> 3273

aacaacatct tactaaagaa ttgaaacctt gagaaagcgg ctaacacctg accaaatctt 60
tgcctctata atcttcttga ttgaagtatg acttcctcac tatcatagat caagcgaaac 120
ttggggagga agcatgttac tctccgaggg atcacctaata ggaagaatgc ttactctaac 180
gattgattac attgacttac gggcagaaaa aggagcaaaa tcaccatcaa aggaactcat 240
agtggataac acattcct 258

<210> 3274
<211> 395
<212> DNA
<213> Glycine max

<400> 3274

agcttttcct ccagtccttg tcaatgatgt aaatgcttca gaattgaacc aaatgcattg 60
aggccagctg tgatgagtga caaaaacaat gctgtcctgt tagatgcaaa accagccaac 120
tgaacaatgg tgggactata atacatcaca gtgttgattc ccacaaactg ctggaagatt 180

aagaggccca caccagcata taaacctctt ctcacagctg aagttcttaa aagtttgact 240
atgttgatct tctctgatga ttctgcttcc ttaatttcca tgtcaactga ttctttcaag 300
gcctgaattht cgccttcaac ttcatgtggt ggataaatct ttttcagaat cgattttgct 360
tcctcttctt taccctgtgg gaacaaaaat ggaac 395

<210> 3275
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3275

agctntgagg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60
atcacgatta tcgtctccct ttccatcatt gngggtaacca cctgggccgc cagatccctc 120
caccctttgg gcgtgttctt tgaaagatct gtcccccttt ttgcacatgt tccgtagttg 180
catcctatcc ggaaccatat caaaattata ctgatactgc ctaacgaagg caaccattaa 240
gtccttccaa gtatggactc gggaaggttc caagttagtg taccaggtaa cagctacccc 300
agcaagactt tcttagaaga aatgtattag cagttcctca tcttttgcca tgcccttatt 360
ttccgacaat acatctttgg ga 382

<210> 3276
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3276

agctttgatg gagaacaacc ttaggatgta gagggtagac gcatggagaa gaagaaagcg 60
cgagcaaaat aggtggcgtc taatataatt taaattgtaa gttcaacatc aattttcaat 120
aaaaaaaaacc aatgttaaca aattcatgtt aacgttaaca tcggttttat tcaataaacc 180
gatgttaact gatcatatct taacatcggt tttcagaaaa ctgatgttaa cgaactaagg 240
ctaacatcgg ttttctgaaa acccgatgtt aactaattaa tggttaacatc ggtttttcca 300
gaaccgatgt taaagtcact ttgttaacat cgattntatt caaaccgat gttaaagtat 360
acacaatatt cacaattatg ccacgacgtt tatcttaaca ttggtttt 408

<210> 3277
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 3277

agctttttaa atggcccagg tttagatttc tctaaatgcc attgaagtaa tttttttata 60
 attttccatg ttaatcgagc acccgatttt cattcttcgg ttttttttca ccaaaaaatt 120
 tcatttcctg ttttttattt atcatagaac taatacaaag tagtttccat tgagaacggt 180
 accggtaaaa attaattaat cacatttaat aatattaatt ttaaataaaa ataataattt 240
 ttaaaataat ttatcattaa atcttgatat caaa 274

<210> 3278
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3278

agcttttagct ntcttgttgt tcatgttgct ccccttatct ctaaaaaatt cattgttaca 60
 tacatccatc atccttagag tatgtgaccg gttaacgtat tctattattc atggattaga 120
 tgcccagaag tcctatgtat tcccttgac tctattacat gttgaaaaat cctttggaag 180
 acaatccctt attgcagagc tttgtggatg gagatgatgc ttataagaac ctaggattta 240
 agttgatacc atatatttct aagggttcatt tataactaaa tgtgacatgt aataaacacc 300
 aacaaaaaaa atgcaggatc aggataataa gcgtatcta 339

<210> 3279
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 3279

agcttcatgt cttcattgta acttacctgt gttgttatat tgaaaaccta ggtctgtttc 60
 gggaaactcg gttaaccca aggacctttt ttggtttatg ctgcaaggat tgaggaactc 120
 gtgacctgag gtaccaggta agcttcatgt ctttgtgtca ttgtcactga tctcactgcc 180
 aatcttggtg ccattgtcac tgttgggttc aaggttaagct ttgtgcctcc gcgtacgtgc 240

taaatttgag aagcaatgct acctttttct aactcatgag ggatacatag acaataatat 300
 atttagaaat gttgcagtag ttttgtttgt ttactctgct caattttaat tcaaataaat 360
 ttcttttagta ccaaattact acacttta 388

<210> 3280
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n. locations
 <400> 3280

agcttattaa tgtatgatta aataacattt aagacaattt gatcagttaa ttcattttta 60
 aatattttta taactgttaa tttgtttatt aatttcaaaa attattttta caaataaatt 120
 aattcaaaca ttttgatat tttaatgagg aaagtatatg attcgatatt atcatttttag 180
 tgatgtattc aagtttcttt gaaatatatg attagataac attattttat cacgtattca 240
 cataatttaa ataaaaagtt acaataacgt gaggaatagt gaaattttgt tacgcaagat 300
 aatgaaattt gatattttct tattaaattg atatagaatg aaatataana atttaaaa 358

<210> 3281
 <211> 339
 <212> DNA
 <213> Glycine max
 <400> 3281

agcttgaagg ggtgctctgg acagaaactc aaatagcaaa gtgaaagctt cctcaataaa 60
 attacttgcc cacattatgc aattcctaca aaggtttagtc agattctttg tgatatggaa 120
 atactatcat aatttgcaat tgtcattaac actggtttgg aaagaatacc gcgcttttca 180
 atttgtcatt tgattgtctt ttctttggaa ttatgttaca tacatagcag ttttgcttct 240
 aatgtttgat ctaacaactt agtcatgtca taacttttgg tctgaaatat tattcctcat 300
 tgtggggttg catacactac taaatactgg acattctat 339

<210> 3282
 <211> 482
 <212> DNA
 <213> Glycine max

<400> 3282

cccccccatc tacccttacc cggacctcat attccctaac tcccagccgg ctcatgatct 60

tgaaccttga tcctgccgcc ccggatctta agaagactgc agcatgcaac ctgttataac 120

acttctagtt gcacccgaag atgttagtca atgctgacaa caattctgac gtacatgccg 180

ttataacaca ctgatagccc taatgacaga gggaaggtag aagaaacca acccataatc 240

ttaaactata tcacccaac cgtgggcgac atccaggccc cactttaatc ggtgagaatt 300

acacctacc aacccaaaac attctggatt ttacaactg gaaccatttt tgaacttcaa 360

acatttccaa ctcatgtttg gttaaagaaa accatctccc ccgcacacc tgggaaaaaa 420

catccaggta tcttccccct ttgggacgcg taacccaac agaatttccc tctcatgga 480

cg 482

<210> 3283

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3283

agcttgcaac cccatcacc cacaaacttc acatatacaa caccgacaaag gagggggaaa 60

accatacac gtgtaaaaaa atattttttg tgtgcatata gcaagcatct ttcaaggaaa 120

taatttgggt tgaataagat tgttatgcat ataagaattt ttattacgag tatttaacac 180

atttatatat ttaattaaaa cttaaactta attaataatt cagttgacag aatttcgtgt 240

tagtctataa gaagttatta aataatctaa aatcactaca tatccatggt gtcaacttac 300

taatggtgga tacanggaac attggatagg attcgaggca ttttaattcc aaaa 355

<210> 3284

<211> 224

<212> DNA

<213> Glycine max

<400> 3284

agcttattag tcggtctttt ccatttattt gtaattttgc attgccattg ttttttcatt 60

aactcttctt gtatctcctt tataatgtaa agattttgct aatcagtatc tctaagacac 120

tgattaagaa ttcaaatga agggtttaat aaaaaacgac attaatgcat atatactatg 180

atttccaaca cacttttcaac gtgaattttt tttaaaaata tttt

224

<210> 3285
<211> 169
<212> DNA
<213> Glycine max

<400> 3285

agcttatgct aaattaggct aaactttcgt aagctgcttg agcagagtct agtcttacia 60

aagggatatg cggaccaaac tcagtataag ttagtctaaa cctaataagg cgtctaaat 120

tgggcctagt ccaacaagaa ggatctgagg atgaagctta gattgattc 169

<210> 3286
<211> 478
<212> DNA
<213> Glycine max

<400> 3286

tgtagtgagg cttggctaca acaatttatt gggttttcta ggattcaaatt gtttagattt 60

taagagagca caaatcatag acttatccca atgatcttgt atcatacaag tagcttactc 120

actatctttt cctcttaagt tgcttttgac cttattgtaa caacacaatt tattcttttt 180

ttttaacata caacttattt gttgtgtgtg ctgatgctta acctttttct tttcattcta 240

attgacttcc cttccccaaa tttagagtaa ctttgcttg aaccatatgc tctcctaaaa 300

tctaaacaag gtattaggag ataattattt aagtttaggg ttcaattcat gacaaaatca 360

tttagcttat acagggagca aaggatgcaa ttatcattca aggtaagctt ttttgtcaaa 420

aggcttgtgt atgtacaatc atggccttca tcatgtcctc atttatacat ttcattct 478

<210> 3287
<211> 182
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3287

tgaactcctg caatgttgng ctattccaag ttcatttacc atacctttat tttcgattgc 60

ttccttcact ccttcagcta ggcccatgta tcctacttca aatgttgaca aaacatcaac 120

tgattgttga tttgctttcc aactgattgt tgtaccaaac aaagtgaaca catattctgt 180
ta 182

<210> 3288
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3288

aaagatgatg acggaggtga tgacttaaag ctcaaagatt taccaaagaa caactcaagt 60
gcattatgaa taattctgga gttcaagatt agaatcaaga agaattcaag acttgagaag 120
aacgtttaga gtcaagaatc aagattcaag gttgcagatc tcaagaatta agagcaagat 180
tctagactca agattgaaga atgaagagaa gacttcatca agataaggat taaaaagggt 240
tttaaaactt tgaatagcac atgagtttnt gacaaaaccc tttaccaag a 291

<210> 3289
<211> 176
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3289

agctttttta ataatctctg tcatcttatt actatttggt ttattattct aatggntgac 60
tataaatggg ttgttaggag ggaaaatctg cactatcacc cgagactctg ttgaaataca 120
tagatgaact tccattgtgt gcaaggtatt acgggttaca aatttttttg ttctaa 176

<210> 3290
<211> 482
<212> DNA
<213> Glycine max

<400> 3290

agcttgctct aaattttacat tgatgtttgt atttattgga ggaggttgta tgccattttt 60
gttttaagag tagcattcct tggtaaaact aactttccaa atgtttgcct tcgcaggaaa 120
tcggcccgag gaagcttgcc tcaaagaggt ctaggaagga taaggcggcc gaagggacta 180
gttccgctcc tgagtatgac agtcaccgct ttaggagcgc tgtacaccag cagcgcttcg 240

aggccatcaa gggatggtca tttctccggg agcgacgcgt ccagctcaga gacgacgagt 300
 atactaattt ccaggaggag atagggcgcc agcgggtggac atcactgggtt actcccatgg 360
 ccaagttcga tccagaaata gtcctcgaat tttatgccaa tgcttggcca acagaggaag 420
 gcgtgtgtga catgaagtcc tgtgtaagag gtcagtggat ccccgttcga tgcaaagtct 480
 at 482

<210> 3291
 <211> 185
 <212> DNA
 <213> Glycine max

<400> 3291

catgcaagct ttcacaagaa ccaagattta ctctttcaag tttttttgta tttgaataag 60
 tctagcatct caaattaagt cttggaagca ataaagaatc aattgccatt caacatggaa 120
 ggtttttgaa taaaaaaaaat acatcaaaat actaaaaaat cattaaattc ttacgcgtta 180
 ctttt 185

<210> 3292
 <211> 656
 <212> DNA
 <213> Glycine max

<400> 3292

tcagactata acacaactgg atctacaaat gatgaggtgt ctcttttgtc caaaaatttg 60
 aaatagatcc taaaaaagaa aggcaagttc aagcaatcct caaaaaagaa agatacttca 120
 ttcaaaaaga gaaaaaaaaa aggaaaacaa taacatcatc tgcttcaaatt tttgaaaact 180
 tggacacatg aaagttgaat gtcacaagca taagaagaaa aggcattctg gaggtaaaaa 240
 aaatagtttg atggccgcgt gggatgatat acacaatgaa agaagcaaca acaattttaga 300
 taaggaataa gccaatattt gtctgatgct taatacagat gaaaaaattg aggtaaaaac 360
 atgctcaaaa tttgatactt tattagattc ctaataagaa gatgaagtag ggatgccata 420
 tgatattttt cttcaaaatt gtcatatgat ttcttttaca tgtgaaaaat ataaagaaaa 480
 ataccaacca tctatctgcy aaaacaattc tgttaagaat acaatgcata ttaataggaa 540
 aaaatctgac tctagaagag agtgtaagca aaccaattct cctgaaaatt agacgaacca 600

ttttagtttt ataactaaga atgaaagagt tgtataacta agatttgga agtttt 656

<210> 3293
<211> 173
<212> DNA
<213> Glycine max

<400> 3293

agcttgtgtt ggcaaacag gtcggcgatt ttggtctttc acgtcttaaa catgaaacat 60
atctcactac taagacagga aaggggacgg taggctctca tttgttgtgg tcccttagat 120
gatttgtttt ctgcttcttc agtgtcagaa tatgtttctg actctccagt ttt 173

<210> 3294
<211> 506
<212> DNA
<213> Glycine max

<400> 3294

ttgaagatct atacagtgtg atagaggggg cctttgatca ctcatctga ttttgcttat 60
gattaatttt acttgcaaaa gcttatatgg aacaagctga gatgactaaa gcggtcctgg 120
atattgttctg ggggaaaaat gaatgtggag aaaaccaaga tattcttctc agaaaacatc 180
aactggcata taaaggagga tcttactgca aagattggtt ctcaatgtac tttggggaaa 240
tatcttggag tgccgatatt ccataaaaag gtgaagaaag aatcctttga gttccttcta 300
cataaagtta atcacatatt aagtggttgg aaaagtaaaa tggtatccat ggcgggtaga 360
ttaaactcttg caaagtatgt gaacaaagct cttcctcat atgtgatgca aattgtgaaa 420
attccggcct acatttgtgg tgaaatttat agaatgtag agcattttta tttgggggat 480
gatgagaata cgacgagagt gcatat 506

<210> 3295
<211> 171
<212> DNA
<213> Glycine max

<400> 3295

agcttgtttt tggatgcaag agaacacaag agtgggtgca tattaggtga agctaccctt 60
tttggccagc aatcagctat gggctacgcc ataaatagtt tccttacacc tagatgttta 120

gaaattttgt tcatcatgaa catgtaggtg taggataggt agcaaaatac c 171

<210> 3296
 <211> 538
 <212> DNA
 <213> Glycine max

<400> 3296

aattgcctga atcatttcca aatatgcatg ttaattttga cgcatacaaca agaatcaagc 60
 caaggctatt gtgcaagcaa tccatggggc aaaacacacc aaatgattat gatgatggat 120
 ggctcaaatt ctacaaaagg taaactcatc actttcgaat cgagctttca aaactatcat 180
 gacatgtaga gaagaatcaa ggatttcaag tcacaaaatg tcaagaactt ttattttcaa 240
 aacaattacc catttcttga acatataccta taattcaaag aaaaacatgc aaattcgtac 300
 gtgcacacaa aattgaccca aaatattaaa ctgaaaatcc gactaaacta acaacattta 360
 caaattaaca caactaaca attaacaaaa ccaacaaaac tagcataacc aaagaacact 420
 ctccccccat acttaacaa cacattgtcc tcaatgtagc acaattaaaa gattaaaaac 480
 aattaaatca tcaaagagaa tcggacaagt gtattaaagc aaagaacgag ataggaaa 538

<210> 3297
 <211> 167
 <212> DNA
 <213> Glycine max

<400> 3297

agctttggca ttttagatta ggatcatttat ctggtaatcg tcttaatgtc ttaaataaac 60
 aattcccttt tatttcaaaa gattctaatt aaatttgtga catttgtcat ttagctaaac 120
 aaaaacgatt gccatattct cttagttcga gtagaagctc taaaatt 167

<210> 3298
 <211> 566
 <212> DNA
 <213> Glycine max

<400> 3298

catagagaga agaagcataa cagttgaaaa taagatattt gttctgttga ttttatccat 60
 aaaagagcat tccaaatttt aaacaaaatc aaagttggct ttcgcatgat atggaagtta 120

ttagcacctt gactaacaga atcaaacttg aagaaaagtt tgtttttgct atttataaaa 180
 gtactcacia caatatagat caacatggat gctaaatata attcagggtt catactctat 240
 tcatgaaggc atacagtagc tctactctac tacagggcga ctcaatcatg accctaagtc 300
 cctaaccctt gtgataaaat ttgcctcata gttcattcta gcacaatact aacatttagt 360
 atgttttgga gaaactctaa cttgcattcc caaaactagt aattcaggat aaatttcttt 420
 ttgattgact tggcatatat ggaactagtc cttttttgta tgctttggta actatgagtt 480
 agattaaccc cacccccaag ttcattggata ttggttctaa cttctgggct ttgttgcatc 540
 tcactagcac ttgtttgccc ctatgt 566

<210> 3299
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 3299

agctttcata agtgaaatca ggtgcagcca tcttcctaag agtcctctca cgagggtgtag 60
 gttggagcca tgttctcagt atgaaaatta ttagtagaat gctcaaaatc agaattgttc 120
 aaattaccag caacagaata ctacagaatgc tcaaaatgca cagaatgatc agga 174

<210> 3300
 <211> 656
 <212> DNA
 <213> Glycine max

<400> 3300

tgtaggatta tggggtaccc atcacatgtg gtactaggtg gcgggtcgggc gatggtgcac 60
 aacaaatttt ccacatccac aaatcgcgca taaacctacc atccccgtt gccacactcc 120
 aactgagctc atgtactccc atgtagccca aatcctcggt tctctcaaca ccgggtcccc 180
 atcaatcttc ccaagcttcc ccaacatcca agtaattcaa cattcaaaca acacaaacta 240
 tcacagccaa gaaaacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
 cagcttttct cacttaaaga cccagtaac aattccttcg ttctagtctg ttaaccgttg 360
 gatcggctca aaaatttcac tggaagtctc tagtacataa acctacattt tgaccgttgg 420
 gatctactag taagcaccca gaactcattc tgcattcactc tttccataac cagaaaatac 480

atagcatttt cttctgcaact tatgcaaaat tctgctgcac aatttcacag cacaaatctg 540
cataaagtgc agatttcgaa accacacttc cctcatcca atcttgctca aataaatcct 600
tcaagtccaa aacatgtatc aatcatgtct aaaccaaagt caagcttcaa aacaca 656

<210> 3301
<211> 172
<212> DNA
<213> Glycine max

<400> 3301

agcttcagac caaagcaact caaaatctat gtatctataa acccctcaat ttagtggatt 60
ttcaaggttt gagaagtga aatgagaatg gggtaaattt ggagcaaact ctcacctcac 120
acaagtctat aaacttaatc taaacttgct caaactgggt tttcacctaa aa 172

<210> 3302
<211> 533
<212> DNA
<213> Glycine max

<400> 3302

gcttcctcca atattgatgc aaaaagtctt ttcaagcttt accttttatt ctctaagctt 60
ttgcatgctc tactcaagat atcattcaaa aagccttcat gcttcacact attggttagcg 120
aactgctatt ggatacacac aacacttatt gtgttctgt tgaccttcag aagcacctgt 180
tccttgacta cccttttgag ttatttcctt ctaaacttat ggtgtgcact cacaattttt 240
cagatttggc attactgact ccacctaaag tgttatgact aaagaatctc caaaggggtt 300
tgtcaacctg acatttacct tatcttttgg caacactttc ttgcaagtta ctccattgaa 360
tttgctcaat gcatacagtg agcttggagc tagtcattat tggggctgct ggaggctgaa 420
tataactttt gaatgttgca tgagttgtcc aagttcttat agctagccac tctttacatc 480
ttcaacctct atcatacaac tcattttgac ttgcgactct catttctacc ctt 533

<210> 3303
<211> 172
<212> DNA
<213> Glycine max

<400> 3303

agcttgaagg catgtaaccc accatcttct catagtagaa caccagtaac gtgtctacta 60
 tcattgttat catcttcttc tccatcattg ggggcgctac ttgagctgtc agatccctcc 120
 acctttgggc gtattctttg aaagattcat gtccttctt acacatgttc tg 172

<210> 3304
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 3304

tcttatccaa ggcaattctt ggtggtgaag ctcttcttc cttggcttat tccctagtgg 60
 atggtgcctc cctctctctc ttctccttg cctttcgctg catctccatg gtgaaaaatc 120
 accattgaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca cctttcaagt gttggacctt tcagaacaaa ctgagaattg tcatttctca 240
 agttatcatg caatttatctt attcatgcat aaatttaaac tactgaaatt aaattgctga 300
 aatcaaaatg cataaaaata acacaactat cctaaaaaaa aaacaaaatg cgattaacta 360
 aaagaaagat aaagtaagaa atcctgggtt gctcccagt aagcgcttct ttaatgtcat 420
 tagcttgacg agtcaaatgc cttcaagggt gcatgaaggt cactagaac acatcttctt 480
 tgcattctcg cctcttagtt agagacgcca tgaaac 516

<210> 3305
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 3305

gatgggctaa tggattaaac aaccatcgac gcttttcttg cttatgacct caacaagtaa 60
 agcccagtca ttgttgtttt ggctgatgcc tatggcacat tcgacctgag atgcgaaaaa 120
 gagtagtgca agaattgtct gttgtacacc tgctctttat gtatggttgg tctcccat 180
 tttttgtcat gaaggtaggc ctatatgttc cctacaaagt catcacatgt gtgccaagaa 240
 aggaaaagca aattgggagg aacttttggc aggtatggta agagcgttcg ttaattgggt 300
 tccccgatgg aaagaaggac gggcccaact tttttgctca tgtgaatgat tcccaacatc 360
 cccctgattg gaacaagggg tgggttaatt ataata 395

<210> 3306
 <211> 160
 <212> DNA
 <213> Glycine max

<400> 3306

agcttatggg atttggttaat gttttcttac caattatggc tatttaattt ttgtattaat 60
 ttcttttata ataaactcat ccttggaatt tttgtaccgt gtgggtgata cctgtgatga 120
 tcgcgaacct ttgtttgtgg aagcagaatg acgactgtag 160

<210> 3307
 <211> 519
 <212> DNA
 <213> Glycine max

<400> 3307

ttgagtctgt gtagcatcgt agcctcttgg cttcgacttc tcttgctagc ttctgacctg 60
 caatgagctc ctcgtactct aaagttgagc tttagggatt tctctagagt gatattgtta 120
 gggccttcga ggatgaccc tgccttattt cctttttacgt tggatgcgcc gtcaatgtaa 180
 aaggtccacc aatctaggtg gttgtgttgt ttctgtgaa ttctgccaga aaatcaacca 240
 tgaattatgt cttcttgggg togtgtgggt cgtactaaat gtcaaactct aatagttcga 300
 tagaccaagc caccatcctt cctgggagtt cagtctttct caaaacctgc ttgatagggt 360
 agttcatctt gactaccacc tgatgactct agaaataggg cttgagtcac caggctgagt 420
 ttatgagtgc taatgccaca ttttcgatca tttggtagtt cttctcgatg tcatggagta 480
 tgcggctggg gaagtaaata ttgagctagc tgctttcct 519

<210> 3308
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 3308

aagctttgtg taatagatta cagtaatttg gaaatcgatt atcagtgttt gtttctgaat 60
 aaaaaaaaaag atgtaagtct ttaaaaagggt tttgaatttt ttaaattgggt ttaagggttt 120
 tttttgtaaa aaatataact tttttaaata gggattttgg ttatgatatg aaa 173

<210> 3309
 <211> 479
 <212> DNA
 <213> Glycine max

<400> 3309

taactcctta ctgtctttaa gttgtgagta cgattatggt tcaggatgga tgcatagaaga 60
 ccagggtgct atgcttaatg aagaaaccga tcaagatcag ccgaattggg tgcccgcagtg 120
 tcccctagac tttgaattga gaaattggca gatcataaag caacccgaga tttatgattt 180
 gatgtaatta aacattccca gatcctattg ctatgcctaa ggcttttagga ttcacatggt 240
 gttgagcgta cttttctttt caattctagt gatcggtaat aaaatgcatt tcaaagacat 300
 atttccttct gcactcttta acatatttat tttcggtgag attaaatgag ttgctgcata 360
 tctaataatg agttttgcga agacattgat atcgagatcc ctaatgtcaa ttttgagatg 420
 cccatcaacc ggagtgagga aaatgaagag aatgattggg aattgccctc tgatttgtg 479

<210> 3310
 <211> 858
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3310

gcgcgcttga ttgcattcat tgacanance natncnttat gataccccac cctcctgggt 60
 caataattnt atttccctan gggcgggggc tttttctggt ctggggggagc gcctcttccg 120
 gtgggggggt ttttttatat atcttcccta ctctcactta ttccgggtgt tatacactnt 180
 ataggggggt tacggagacg acgtgcagtg tctttactcc ttttaactctg gactcgggtg 240
 taatcaatca ttgaccgggc ttactatctt cggagacttg aactggtaat gtacctctcc 300
 catcgggctg aattctatct atgtactctc gggggggcct cttttctggt aaggagttcg 360
 accttctctg ctttcatcgc tatcgtaac cgcctcgatt accgtgggtca tactcattcg 420
 tttagagaca tttcccggt cagccgccc gatcatatat tcattggcct gctgcgtctg 480
 aactctacca ttcggttaatt ttacttataa cgctatcctc cactgttcgt cctgcgttca 540
 gcctcgtggc gagtttcagt aagggtctat tgtttatagc ttcgggtcaat cctctctctt 600
 tattegttcc ttccacattc taatctcaat ttgctctttg cgctatccac tctctacggg 660

gtttcaccgcg tccctcaggtc gcaatttctg tgttgcccga ctctactagg tgtgctctcc 720
cccgaattgg tgttgcaatt atctatggtc ctgccttccc cgtacttagt gtcattcatta 780
aagtgcgcat cgctctaag gttatgtgcg catgagatat aggtacgggtg cgtcttcctg 840
tgacacatct actcatca 858

<210> 3311
<211> 169
<212> DNA
<213> Glycine max

<400> 3311

gcagcttaaa tagaccactt tcagggtgctg gaactacttc acatggactt gatggggcct 60
atgcaagttg aaagccttgg aggaaagagg tatgcctatg ttgttgggga tgatttctcc 120
agatttacct ggggtcaactt tatcagagag aaatcagaca cctttgaag 169

<210> 3312
<211> 225
<212> DNA
<213> Glycine max

<400> 3312

gcttggttga ttatggggta cccgtcatat gtgggactat gtgggtttta tgtgatggtg 60
caaatcaact ctgccacatt cacaaatcaa acatgaaccc accatcccca attgtccacc 120
ttcaactgag ctcaagtact cctacgaatc ccttatactc gaacctctca gcaaccggtt 180
cccatcaacc cctccaagct tccacaatag ttcattgtat acaat 225

<210> 3313
<211> 168
<212> DNA
<213> Glycine max

<400> 3313

agcttaactc cttcactgtc ttttaagatt tgttttatta ccaggctgca cgaaggatgc 60
ctgaagacca ggttgctatg ctaaataag aaaccgatca agatcagccg aaattgggtg 120
cagccatgtc ccctagactt tgaattgaga aattggcaga tcatagag 168

<210> 3314
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 3314

tatttagtac tcaagctcta aagtttgaat taaaacgttc aatagctgct ggtaatcggt 60
 ttcacagtcg aaattttgaa ttcaaagtgt aatagttggt gtaaattctgt tctggccact 120
 ggtaatcgat tacatcctct ggtaatcgat taccagagag taaatctctt gaaaaagatt 180
 ttttaactta aattttcttg tcaaaccttt tgctacttca attggaattc ctttcttatt 240
 taatatactc ttcctaagac tctagagact gtcttgatcc tccatcttga atatctttga 300
 ttctttgtct tgaaaaagct tgagaaacat gcgatctttt ggcttatcaa acatcagctt 360
 ggccctttgc tactcatgga ctcttcatca attattttac aaactg 406

<210> 3315
 <211> 176
 <212> DNA
 <213> Glycine max

<400> 3315

agcagaagaa gcaagtatcc ttctgtcacc ttacaacaa gattcttcat caaagtctac 60
 tcaaagtcga gtaagatctt tgggtggatat atatgaatct tgcaacacag atatgggtga 120
 gcctaaatgc tatgaaaaat ccttaaagaa gcaaaggcaa ctaattaagc aaatca 176

<210> 3316
 <211> 620
 <212> DNA
 <213> Glycine max

<400> 3316

tatcccatgc ctcttagcg tatgtttcat aagaaactat ctttaactct tcatcaccta 60
 atgcttgata gatgaggaag aaagctttct tgtctctctt tcttgaatcc tttaaagtct 120
 ccttttgtgc ttgggatagt gaagtctcat cttgcggtc cttataacct ttttcaacca 180
 tttttcaaac atcatgtgct ccaagaagga ctttcatttc gatgctctaa ttgtcatatg 240
 cgctccccct tagaaatgaa acttgggaagg atgccgctca attgcttgcc ataactatag 300
 aggaatttct tatcaaaacc taagctctaa taccactttg ttggaaagga gataggaagt 360

atttgagaga aatggaggag gagagaatat ttgaaaaaag gctagttttt atcacttgag 420
 atacgctttg ggcttgactc ctttttgtgt ctttggatgc tttacaaata acaacctctc 480
 cccctattat aggcttcaat gagggattct aaatacctca agaaagatcc acacacctta 540
 attgagagtt tacacatttt ttccaactac ttagttctac acacctcttt ccatgcaaatt 600
 atttttttca cttattttcta 620

<210> 3317
 <211> 170
 <212> DNA
 <213> Glycine max

<400> 3317

agcttggtta cctccttctt cactacattt tgtatcacccg gggttgagtct tctctggggc 60
 tgggtgctgca acctaccctt cggcgaggagg gtgacgcatg actcgcgggg gcattgttcca 120
 agaaaggaat atgcgcggag tgcgccacaa cgtttatttg aggaaaacgt 170

<210> 3318
 <211> 868
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3318

cggccatgat tgcattgcat gcccgaccnc ttnggnatag aagctcgcca ccctaagaaa 60
 agatccatgt cacagtagac ggagagatgc attttgtata tatatccggc agcatcaagc 120
 atagaatgaa gggaggcgga tcgagtctat tgaatagaaa ncatacacac tctacacccc 180
 attcaaattct gggcaattta atatagacta caatcttgga acacgaatat atagatagtt 240
 cantgttaga ctgcgtcgaa gggactgaat aaatctatct tgcctaagt cgctaatacc 300
 taaacgaagt ggtgcaacaa agacaacgaa gtccttgtca tataatgata aatccttaaa 360
 ccagcactag gcctttatat ctcttggtt caatccaaaa gaaatcaaatt ttatgaagac 420
 tagcaaaggc ttttttattt tctgttttag ctagtctctt gacgaggtat attgatttac 480
 taaaataagg gcaataaaca acttccaatg gtaaaaaatg tgcttattta cacaataaat 540
 gaagacagat tgaactacca aaactaacia ccccaacaaa tctggctaga gccaacctaa 600

gtcgacggcc caacttataa ctcggccaaa acctaataca agtaaatatt agttcaaaag 660
 cttccaacga aacaaaagaa aaaaaatcgg gaatcggccg aaacttgccc cctaccacaa 720
 aaggctggac agaacttgtc tgggccaaacg ctctacaaat gaatagaagg gctcaaacta 780
 agaacacaac cttcattaca caatatatgg tgcactcagg gggacaccaa accgaggtcc 840
 attgggcgcc acgcagaccg gttacact 868

<210> 3319
 <211> 605
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3319

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 ggcacttctg tgtttctcga aatagctgag gaaaattagt tccgtggagg aaattctagc 120
 cgaggcactt ccgtaacgtt tccgtgagta attacgcgaa gatcctcgac cgttcttaaa 180
 gattcatcgc tcgttcttca ttttcttcgg gcttcaacgg gtaattacct caaaccaagc 240
 ttttcaattc attctatgta cccgtggtgg tccacatttt gtttcatgta tttttattct 300
 cgttttcatt tactttttat accccctttt gacgtgctta agccatttat ttaagtcatt 360
 tctcgcttaa tctaaaaata aaataaattt ccaccgatcc gttgaattgt atcattcggt 420
 aattttgggt aaaatgaatt ccgaccgttc ggtcgtgccc gaaccacggt tggaatcaac 480
 aaaagagggtg gaataattaa ataataatta aacatacctt ttagttaaat aaagcgaaaa 540
 acaacggcca tttctctttg ggattctcat tcttaatcga aattgactat aactacaggg 600
 aacta 605

<210> 3320
 <211> 176
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3320

gcatgcaagc ttctccgaaa ggcattgggga tttctattnt tccgaaaata tctaagaatc 60
 tcgccaaagg aggggccttc ttctttttgg aaggcaccct cggtatgggt actttcgcac 120

cttcttttcac aacttttttct cttttcttct ctctaaattg gtcactttta ctcctt 176

<210> 3321
<211> 121
<212> DNA
<213> Glycine max

<400> 3321

actgggacca ctcathtagc caatttggtt ttttcctggt aaggtctgag agagcggggg 60

agattgctaa caagatccaa tcatgtaggc cattaaattt ctcatatgct tgacatatat 120

a 121

<210> 3322
<211> 167
<212> DNA
<213> Glycine max

<400> 3322

agcttatact atttccatgc actatgatat catgaaacat gggaaccatc aatgcactga 60

taatggataa ttaaatatcc taagccatcc ccacacaaaa atgotttaaag ctctttaacc 120

attctatttc ccctactagg gatattcaac ttggtcactg caccccc 167

<210> 3323
<211> 785
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3323

cgggcaatga tgcatagcac tgnacacccc nctnggtaac taaacttcgc ccttntgggc 60

aaantgggt aaatgagcga ggcgagtcta ataatatgcg ggtgggatca acatacgggg 120

aggaatgcct aacaaaaaaaa cgcgcccagc gcgaaagggtg gaaaatctca acgcaaccaa 180

gaggtaaaca taattacact acagtcttgc ctcaaacccc ccctgggtgga ctaaaactaa 240

taccaaagca acattgggtgt aagtanccta tacgagagca acacttaatg cgcaaaactc 300

ctcaaataac acaaaattca aggcgcgttg tataaggctt aaggcaaaaa accattccca 360

aggtcaagcc accaccagta ctcccagggg ggggacacac caccgacatgc aatccgagcc 420

ttgaaggggc gatgaccccc cgaaccccc agttgaagtt agagggtctac ctccaggggt 480

tttcaaaact ccaccagggg gggtagccg cgattcaaac aaccctgtgt aaggggaacg 540
aaagagaaaa taccggttct acaaaaaag ggaacgagcg aagtgttcga agggccacga 600
ctcggaccga aaaagctcac tcaaaaaaaaa aacctaggct tatagcaaac gaccactccg 660
ccggtctgaa accatttttcg gaataggag cgaggcgct ggaaaagctg ggaaaacctt 720
tatggggacg ggtgcagacc tagctcgcca gcacagatca aggggtccga gccagcgggc 780
gcggt 785

<210> 3324
<211> 1017
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3324

cgcatcgtt gattatgaat tagcanttag cnananancn atctnnaata taatgagaac 60
atgacccg cgagaggnac tgtgcatgna gcgcatctgt acagagcggg accgatgttt 120
atatattttt tttgtcggcg tcaagagacn cgatctcaat aggtcgggtgt gggatgtttc 180
tttagtaaca tacatactcc accaccnagc atctcgataa tggaattata tacgcgtggg 240
tatatacacg acgtctctgt agatgtatct acatcgaagg tcggtaacac taatatactg 300
gtgatgatat tgtcctgtgt cagcttaatt atgtatgtta gatgagtcta cgagaatact 360
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atcttcattg tgtagtggcg acagcttctt gtagcgattt agtataatca tagcttctat 480
tttaagttat ttatttgaca acaagaaatg acatttgtaa taattattgt caatagtgt 540
ctatgtgaac atatcatatc ggtacaatgc agtatatgtt gcttgtattc taagatgatt 600
aattgcaagt aatgatcatg tccatgatac ggcattatga tcctactata ggtagacatg 660
atgatagatg acgtatgctg tagaatgttg attacatgag agacagtaac ttagtatagt 720
gctgaagcag ttgatatacc tttatcaata tcaggctagt cggttctgat ttttcggtaa 780
tatgataaat cgttacgaac tgtgtcatat atgaactcga ctgataatgc taagtgcgta 840
tcgtatatta tgatttctgc acattattcg caggatattc gtttagaagt agattaatta 900
ggaagatgga ttatctaag agttgtctag ggtcgagtag gttctataag tatagtcaaa 960

taccgattat atatacaggc atcagttgtc gagatggcat attgcactag tatatag 1017

<210> 3325
 <211> 489
 <212> DNA
 <213> Glycine max

<400> 3325

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 ctaacttaaa ctaagctttg tcgtcagatc cctcttggtg gactaggctc aacttaaata 120
 gcttacgaaa gtttagacta atttaaccta agttttttcc tcagatccct cttgttggac 180
 tagacttaga ccaaacaaca ttgttgtaac atcatattta aaaccaaacc ttaatccgca 240
 aatccctcat ttaagactaa gtttcaatcc tgcttctatc aagttctaag gcaacaatac 300
 atttcccaat gctaaagtca cctaacagta cacacaagtg ggtgatcaga ccaagagcat 360
 gcaatcttta agcattgaaa ggagcattga acacaataaa cacaaccaat tagatattaa 420
 agtgattaca tcagctgttc tttagaaatc cccaacaagg gtgttttagcc aggattaca 480
 gaaaaaccc 489

<210> 3326
 <211> 886
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3326

aggcctgtgt agaaatcgat gtannaaccc ctngntagg aaaccaaccg cggggggaac 60
 gaanaggtgc gggggaggcg gcaaactttt gtttctatct cgccggaccc actaacaagg 120
 ggggagcggg ttatataaaa agaatcctcc cgcacgataa gcagaatgtg ttataaaagc 180
 aagagaatag caaacgggt agagggaac ggaatggcaa ttccacctca caaattatgc 240
 taacgagcga acgtggaact atggctataa ctgactcaaa gaagttaaac aaatgagtga 300
 agaaggtgtg gaggatagac aagagaggaa aaccaccagt gccaatggcc actacacacc 360
 atcaacaaac gttccttttg ataccttata ctcaatcggt gttgtcgtca acgcagtaac 420
 gtagaacaaa tccaactccc acgttaagaa atcaaccatc cgagcaacac gatcgacaca 480
 cccctacatg tatcaacgta acatatctat aagagtagac gcaccacagc ctccactcac 540

aggacgcagc accacggacg tcagcgggac gaaactaacg acaccgggcg taagagccgc 600
 ctgaccacaa agagcgacag gggcccttat ccaaaaaaga cctgagggag gactaagtta 660
 gcatgttctg agaaacagat acacagggca aaccactag atactatcct atcacgcaca 720
 cacgaaaccg accaagaact ggcgaagaga gcaaacacgt caccgaaagc agcaacggac 780
 ccacagcgaa tcagacacgc gtcacacaga aataaagaaa tctgcatttt cacatgcccg 840
 agcaatgtaa cgtattggta aatacaaaaa gcgacgttcc gacgct 886

<210> 3327
 <211> 276
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3327

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 gaagaacggt cgaaaccttc gcgaaattct tcacggaaaa tggtacggaa acgtttccga 120
 agcgcctcgg cttaaatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagtgcct aaggggctga acccttttct tcttcacttc ctcccctatt tatagcaaaa 240
 taggggaggt ggttgnccgc cagctcgccc attcga 276

<210> 3328
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 3328

tgaaattgaa caacagaagc tcttgagaaa ctcaaatgtt catatacttg tcacacggaa 60
 gtccgatgca ggcgcataat atattgagat gtcgaaatt gaacaacgaa tgctctcccg 120
 aaattcaaatt ggccataact tgtcacacag aagtccgatt caagtgcata atatatcgag 180
 aactcgaaa ttggacaacc aaagctcttg ataaattcaa atggtcataa cttttcaaac 240
 ggaagtctga ttcagccaca taatatatcg agaagcttga aattgaacaa cggaagctct 300
 cgggaaacaa aaatggatcat aacttatcac acggacgttc gatttaggcg cataaaatat 360
 ggagacgctt gaaattgaac agcgaatgct ct 392

<210> 3329
 <211> 176
 <212> DNA
 <213> Glycine max

<400> 3329

agcttaagag cctacttttg tggcaaaaca atatagttgg aacaatccca taagagcttg 60
 gaagctgcat agagatcaaa gtcctagact tatcagaaaa ctttctcaca agtagcatac 120
 caaggagctt tggcaacatt tcaaatatcc aggagcttca actaagtgtc aataag 176

<210> 3330
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 3330

tcctcaattt ttatggattg atgctcttaa gatggttgcg tatatattaa actgagttcc 60
 aaccaaggca atctcaaaga caccttttga gttattcaag ggttggaaac caagttgtga 120
 cctatacgcg tttgggggatg cccgtctaaa gtaagaattt atatccacaa gagaagaaac 180
 tagaccttag gactattact gggatattca ttggatatgc taaaagggtc aaaggggtata 240
 ggttttattg tccatcccac aacactagga ttgtggaatc aggggaatgca aagtttcttg 300
 aaaatgattt gatcagtggt agtaatcaat ttcagaacat ttcttctaaa agggatcact 360
 atgaagctga accttctggg acaagtaata ggttggtagt cattcccacc cctcaaggta 420
 aaatgggtgt tagacaacta gtgattgaag ttccacacgc tgctgaaagt gatcatgt 478

<210> 3331
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 3331

catgcaagct tcccactgca gcagttaagt gaacaaatga tgtgtccaca gtcagtggat 60
 gattgcttgg tagaagtaca tgctaataac taataagatt tcttgtgtag ggtatcattg 120
 tttttgcac aatgatggct accttggggc tggagatttt gattgaattt gc 172

<210> 3332

<211> 617
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3332

aaggatttga gtttgagagc tacatattgt attttttggt atagnaccaa acgacccctaa 60
 tggctcatga ttttagctaaa acatctaaat aaacccgagt atgtctttat aaataaatta 120
 aaaagttatt gaataaaatt actctatcat aatctcctct cacacatttt ctaacataaa 180
 ctacatcagt atatttaaag gtaattatta attataaatt actaacgcac tttgacaaaa 240
 aaaaaaaga agaaagaatt taatgtacac taacaaattc tactggcttt ttgttaacgc 300
 atatttactg tttctatggg tggaaaacat aagatatagg aacacatttt cattacaaac 360
 ttctcattaa cagttcaaca cccatttttt tttatatctc tatttttatt atattataat 420
 acctatcata tttacatttg tctctctgt atctttttat ctctctagat atccaacgtt 480
 cattaaactt tttttataaa gcaaaatgta cccttaataa aaataattat attgagactt 540
 tttctatatt cttagaata attaaaatgg gtttaggtta tgataaatct cttagatgga 600
 tataataatc tgctaaa 617

<210> 3333
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 3333

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 ggatccgcta agcaagccta ttgagaaaca agcgctctct ggcttgctta gcgagaggc 120
 cactagcaag agtgcgaaa actgcttaag tgagtgaat ggcagcacac tcacaattcc 180
 agatttgaaa cttcgctgt gattctctct cccaaaattt acacatgttg catattgctt 240
 tctttttaca ttataacttc atgcaataac cattcagcat ccaggtaagt tccttggttc 300
 cttttc 306

<210> 3334
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 3334

agctttaaaa actaattact tcttgtagac acgtacaaga agtaactagc ttttggttta 60
tttttcgtat ctctaccatc aaaggaatct tcaagctatg aaaaaatcta aaagacaata 120
accaattatt ttatgcattt tgaaaatggc agagcactat gataacagtg ga 172

<210> 3335

<211> 538

<212> DNA

<213> Glycine max

<400> 3335

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caatcatctt tgaatcatct atctttctat cttttttcaa catcatctct aaaacatctt 120
tcaatcaatc tttctacaca attttctaatt tcatttctct ttatctttct aaaagttttt 180
tatcaacact ttctctttca agaaaagttc tttgttcaaa aacttggtgtt attcagcttt 240
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cccttcccct taagcaaaag atttcaaagg actaactgcc tgagatatct tttgtttccc 420
cttacaaaga ttcaaaggac taaccgcttg agaattcttt gtcccaacac atcggagggt 480
acatcctttg tgggtacaagt aaagggtacc tctacttggc gattgttata ctgagaac 538

<210> 3336

<211> 661

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3336

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tattcagaaa accaaaaccc caacaatcca tccttggttaa tatggttatt cagtcttgct 120
tctgtcatat ctttaatttcg tgcgggaact attgcttgat ggcatgcaac cttttgattg 180
gccgcttcaa ggtacttggc acccggtgtt gcacaatatg tgaagtcccg agacatgcca 240
gaaatcaaaa ggaagcgttg ttacgcagtc cgtgaaattc tgtaacgtga cggaaatcaa 300

aaggaagtat tgttacgcaa tccgtgagtt tccgtaactc ttcgaaagct aaaaaaggag 360
 taattatgtg atccctaagg tttcgtagcc ttacgaaaag aaaacaagta tcgttacgaa 420
 atttgtaaag tttcgtaacg ttacgaaaaa agaatcacca aaaaaagcaa aggggtgtat 480
 ttagtaaaaa aggggggtgca aacagtaacc aggccactt gtgccttcca gattctttct 540
 ccagaaagcg attgcttctg gaggaagcaa cctgactccg ctgggcgagc tcgggtggcaa 600
 gcttctcccc taatttgcta ttaataaggg gaggagtga gacngaaagg gtcagccttc 660
 t 661

<210> 3337
 <211> 799
 <212> DNA
 <213> Glycine max
 <223> unsure at all. n locations
 <400> 3337

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 gttttcgtct tntnccgncg ccgcancncg cgcgccgggc gggcgggcggc gtggcgcgcg 120
 ggggtgggccc cccgcggcgc gcggggcgga aaaatcgcg cccggccgcg ccggcgccgc 180
 ctccccgcg cgcccgggc cgcgggggc gggctactcc gnnngcgcg gngcggnncg 240
 gggggggggc cgcngggggg gggggggggg gggcggggc ggcnccccgg ggggggnncg 300
 gggggggggg gccgnccncg gggggggggg ggggggggnn gggcgngcgg gggggggggc 360
 nncggggcg gggggccgg gggggcggg gcggggccc ggggggggg gngcggnngn 420
 gggggggncg ggggggggg ggggggggg gggncgggn nccggcggg ggggggggg 480
 gggcgnnnnc gggcggggg gggggcggc ggggncngc gggcggggg ggcgcgggc 540
 ggnnncgggg gggggggcg gggggcgcg ggcgcgggg gggggcgcg ggggngggg 600
 ggggggggg cngggcgcg cgcnncggg ggcgcgggg ggcggcggg ggcgncggg 660
 gcgggncg cgggggcg gggggcgnc ggggggggg gggcgggcg cgcggggnc 720
 ggggcggcgc ggggncgcg ggggcgggg gcgncngcgc gggcggggg ggcgncggg 780
 gggggggggc gggcgggg 799

<210> 3338
 <211> 911

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3338

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gaggaaccag cgaccatcca actacacnnn ccacaccnnn nnagcgggtt gatgcctgca 120
tgaccaacc nttnaataaa anaccccgcc cgcgaaaaan agaccactga aacgacagcg 180
gacttttcat ttgcctgagc gccaaacacc ggcgggcggg ggcgggaccac aaagagaaac 240
cacaccggtc cgaacccaaa atacatacca gccacaaga aggaaccacc gccacacgc 300
caaggaacac accccaacaa aaacaagcgc ccaccagaa caaccacagg aaacaacgcc 360
ggagaagacc accaccatac aagacttcag gtgcaatacc cgacacgga cactccaagt 420
gacgaacccc accaaagcaa ggtgacacac agaaaagccg gacaccgaga gaaccacacc 480
gcgaaacccc ttaacaaaag caccacaac ggaaatcagc cgcacaagaa aactcaaag 540
ggccgagaaa ctcaccaaac ccccgagaaa aaggggaccc aagacacca cacatacaga 600
gccccaacac cgccaagcga acgagaccaa ccaacgaacc gcacgacaaa accaaaaccc 660
actcaacaga caaccgacaa caccaaacca atgcacccaa ccaacgagcc tcaccgactc 720
cgagcgcata acagaccaca caaccgacgc cgaaccaaca atacatgaac acaaaaaaca 780
ccagccccac cagtcaaaaa ggcaacaacc ggacccacc aggaacaaaa aacacacaca 840
aatgccacaa gcagcactac aaccgggcga ccgaatagat gctacggcca cgtagataaa 900
aacgccacac g 911

<210> 3339
<211> 168
<212> DNA
<213> Glycine max

<400> 3339

agcttcctta gcaacatgct ttctcttatg tcttcagacc aattttctct aaagtatcac 60
aaagttatga aatgttacac aattagcaaa atacaaattt tacaatttca tatcaataa 120
aacaaaatca gcattactat ccatttcaac cattgaacta aattcatt 168

<210> 3340

<211> 910
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3340

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cgcatgatgc atgcatgaca annncatag taaagaaaac ccacgctcgc tgcacaaaaa 60
aggggaagccg agaaggcaaa tttttttttt atcgcgcgga gccgctaaac aggggggggtt 120
tgaaaaaaaa aaaagccctc ttaacgcatg gttatcagta atggatctct gtattacgat 180
gtgtagaata actgtctaag cggatgttta aatggaaaac ttcacttcac aatgtaacca 240
caattaagga aaaattctag ctactggatt tggatatatcg ttcatgaaat gcaacaccat 300
ttgcgtaata ggggactatt ttttttacat tattcaactt ccattgcgat aaacccctct 360
acatcccgtt tcaggaccct ggggtagttt acctctatct catgcgggaa gactttctgt 420
tggcacaaaa cacattgtgc tgccatgggt atcaaaccac acgaaagact catcgagacc 480
tattcctact gcttagctga ccaacaccat attccattca tctcattaca agaatcttac 540
gcaatccagg ttagatccca taagatttaa ctacttataa gctacattac aaaatcaatc 600
gcccaccgcc tcacacgacg tcaccgcatg caatgatcga atgagctgct acactcgcta 660
actcgtagct acatactaatt attacaacaa gtgattactg acatgatatc aagttatcac 720
ctgatttgtc tctccacctc centccgaac acggcattca ctctcctcta tcttacctca 780
tatecttacc accacataat acatattctc gcaacatana cgatcattac aacacggaaa 840
gaaatattgt aggagtaaca catcgacctg actgactact tactactcac tcaccgctca 900
actttcaccc 910
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<210> 3341
 <211> 163
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3341

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agcttgaaac ttgcagaaac acactanata aataggggtg aatagtgtgt gtatcaaaaa 60
taaaaccttt tcgtaataac atggatagta tggataatat agagataagc actggtgatc 120
catgagagta gatagattgt gtaataaaga aaagagtgat cat 163
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<210> 3342
 <211> 819
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3342

ngagcagagt gtttgattca cnnncnatag tanaaaanacn acgcgggncn ccanaaancc 60
 ttcttgcccg ccaggcccta ttatTTTTTT tatcagaaca agaaggagag ggattttaat 120
 actaaaaacc cctccctggc aatatggata tttatnctgg tttttggcct ccttaatttc 180
 ttgcggaaca tattgattga tgtgatgtaa tcttttgaat ggatgctata tagtaatagg 240
 caaccgttgt tgaacaatTT gtgtagtact cgagaaatgc ctgaaattaa aacgaatctg 300
 tgttatgcaa tacaagaaaa tttgtttcgt ggctgatatt ataacgaagt tatggataac 360
 atatccgtaa aattcgaaac tttttgaaag gttaaaaaag aataaatatt ttatcctatg 420
 ggttggtaac ctttcaaaaa gaatcaagat ctgaactata atttaatat agaactttac 480
 taataataat attattatag taaatgggtg tatttattaa aaaaggggtg gaaatggatt 540
 aaggtcaatt ttggcttata aaatTTTctt ccaaaagaga ttgtTTTTtg tgaaataaca 600
 ttgaatcttt gggttaactta gggggaaata tcttcctttt ttttgtatac aagtgggtgg 660
 gtgtggaaat agaagggtata actttcttat gacactctat acatatgtaa acttattaac 720
 aataaacgtt cttcgaaaaa aataagtaac aagtagtatt tcataatgat ttctattgtg 780
 ttgagactaa atataattta taactacatc agtactctt 819

<210> 3343
 <211> 589
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3343

gaatacccaa gcttgtaactt ttgaacactt gcttatctta tccagagctt tcagtttcta 60
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 tcaggatatt gtgtccatt ccttgtttag ttatgatgca ttttttgatg atactcaagt 180
 catgtgtaac ttttgaacat ctacctagcc cttgactgga gatatctttc aagcatgctt 240

ttgatcatatc aaaactttttc atttctattg cacttttgata tgggaaaagc aagattttcc 300
 tttcatgatt ctagctagta aactctattc tagtagtcct acttctattg tggctgatcc 360
 tatgtctgga aggttgacat acttcaagtt gattcttcgt acctttcttg atgcttattg 420
 atcaagtcct atatcataaa cacatcatta aaagagacca ttagcaacca aagcttgata 480
 acttaaaaat taactcttat aaagtaatta ttaataaaagc tcaagcatta naaggagtta 540
 ttcttcaaag atttcaatat catcatatta gttcttgat ttttttttc 589

<210> 3344
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3344

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 aaagagtggg ggaatttgca ggaggatttt gctttagat cattgtatca agaacgggtg 120
 caaaattctg aggagaatct agggagacaa agaacatagg aattgcaacc ttctgatgga 180
 tttctaggtc gccacaagg ttaacaagct caacaaaatc actgataagg cgctgaggaa 240
 catagaacac ctgagaactg catattagga ggtttttatc gttgtcgctt ggttctttgt 300
 aactgacttg aaagtgcgct ggcatcgtgc taacaacctt ctgtaccatt cttgcttgtt 360
 gtgataacca atctgagtc taccatttg ttaatataga agaccaagac tcggatacct 420
 gaattcccag taatgtgtaa attgtcagag aaaagagcta tacgaccttc taagagctat 480
 atgacctttt aagagttaaa gctatgctgt anaatatattt cagtgcatt gtctgaaatg 540
 attgaatatg atct 554

<210> 3345
 <211> 595
 <212> DNA
 <213> Glycine max
 <400> 3345

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 atcttcagaa aaaagtcact tgaagaatta tgacttttgg aaatgtattt ttcgaaatca 120
 gtcactggta atcgattacc attaaggtgt agccgattac acatcaacag atgtgactct 180

tcattttgaa ttttgaaaat cttaacgttt taaaatactg gtaattgatt acatgattat 240
ggtaattgat tacaactttg taaatcagtt tgaaaaacaa tgctggctac tggtaatcga 300
ttactacctt tggtaaaaga ttttgtgaaa acttcatgtg ctactcaatg ttttgaaaaa 360
cttttttagta cttatcttga ttgagtcttc tcttgattct tgaatcttga gtcttgaatc 420
ttgatcttga ttcttgaatc ttgagtcttg aatcttgatc ttgattcttg aatcttgaaa 480
cttgaaactt gattcttgaa tcttgaatct tgaaacttga aacttgattc ttgaatcttt 540
gcttgaaact ttgcttaact cttgattctt tgaatcatca aaataacctt ggaag 595

<210> 3346
<211> 531
<212> DNA
<213> Glycine max

<400> 3346

ttataagcgc aggtctggaa gacaaaggtc aagtggtcgc attatgcgaa gatgatgttc 60
cgagtacatt ggatttggta cgaccatgcc ctctgattt ctagctggga aattggccag 120
tggaggaacg cctcggcatt tatgcaacga gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctaggc tttagagttt ttcttttgt taaggctttg tgtcttttgt 240
ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300
ttcatttgca tgtttacttc tttttctgaa acggcagatc cgatgacgag tccccgaag 360
gtactaatac ctgggacccg cctatcgact tcgagcaaga aatgagtcac acggaagatg 420
aaagaaatga ggatgtggga cttccccag attagaaaga atggtcggcc atgacgacca 480
agaaatggga cctcatcaag aagaaacaga gctttagtagac ttaggaattg g 531

<210> 3347
<211> 179
<212> DNA
<213> Glycine max

<400> 3347

gcatgcaagc tttggaggca ttacctttat ggaactaaat ttaagggggt taatgaccat 60
aagagcctta gatatatgtt tgatcaaaga gagcttaaca tgaggcagag gagatggtta 120
gaggtcctta aggattacga attttagctt aactatcacc caggtaaagc caatgtagt 179

<210> 3348
 <211> 609
 <212> DNA
 <213> Glycine max

<400> 3348

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 tcacctcccc tctaaaattt aattggattg ggcttctacc aattcaatta aatttatttc 120
 ccaccataca catcaaatat tcaacttagtg cgtgtgaaat tacaaaacta cccctaatac 180
 aaaaactagt cttggtgccc taaaatacaa ggactgaaaa atcccatatt tctagggtac 240
 cctacctaca ttatggagcc ctaaatacaa ggaccaaaat taatgaaacc ttaatctaata 300
 atgtacaaag ataagtgggc tcatacttag cccttggggc cgaaatctat cctaaggctc 360
 atgagaaccc tagggccttc tcttgcatct ttggcccaat cttcttgga tcttctatcc 420
 aatgcccttg cggggtagga ttgcatcact aatgtaccca accctagggt attttatgaa 480
 taagagccta agagaaacct accttttagcc caaactagaa aaactattat tgcatgcctt 540
 ccgaaattca tgcataagct aacatggtaa acacacgaaa aaatcgagtc aacgagagac 600
 acaactttg 609

<210> 3349
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 3349

catgcaagct tgctcatgcg tttggagctg aattcctgta tagaggcgcc ccacggattc 60
 gaatgcgacc ttggagacgg cgtcggagcg gtcgagcatg ttggagccga cgcgggccca 120
 ccaggcaaag acgcggtcga ggagggtgac gttgttttcg cagagggtaa cgagatcg 178

<210> 3350
 <211> 641
 <212> DNA
 <213> Glycine max

<400> 3350

aaaatttgaa ttaaaacgtt cagaaactgc tggtaatcga ttactatata tgtgtaatcg 60

attacacagt gcaaattttg aattcaaatt ttaatagctg ttgtaaataca attttggccc 120
 ctggtaatcg attacatcct ctggtaatcg attaccagag agtaaatttg ttgaaaaaga 180
 ctttttaact taaatttctt ggccaaactt tttgctactt caattggatt tcccttccta 240
 tttaatatac cttttctaag actctagaga ctgtcttgat catccatctt gaatatcttt 300
 aattttcttg tcttgaataa agctttgaga cgcattgtgaa actttggcat catcaaaaca 360
 ttcagcttga tcctttttct acataggaaa accttctttt cctgaggggc aggtatgaaa 420
 tttattgctt caaacaaaag attctgctct tttgtcaaag tgggtgacctc ttggatctca 480
 tcacttttcg aagatgatac ctgatcatct tgctagaatt tgggtgctgg ttgacggtta 540
 tccagttttt tgtacttgaa aatcctttta agaacatatt tgggtcttttg aacttcttta 600
 tgggggggtga tttttttttt ctttggacag atgacaattt a 641

<210> 3351
 <211> 182
 <212> DNA
 <213> Glycine max

<400> 3351
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 aaagaggggg gagcacgaaa ttgaaggaat aaaagaggga gagaagtgga actttgaagt 120
 atgtctcaca agactctcaa tcatcaaagt tacaaccagt gttacacatg cttctattta 180
 ta 182

<210> 3352
 <211> 154
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3352
 agctttatta agcatatact tgagtttcnn ttcctaaaca tattcttact tgagcgctcag 60
 agtcctttgt tttgaaagtc cctctctttt caaaagtacc cctccaagcc aacgcgctaa 120
 gtttgggacc ccactcaacc atgtccacct tgat 154

<210> 3353

<211> 1106
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3353

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gggctgacac gacgtngttg attgcatgca tcgncacacc ncntnaggta tcaaacttca 60
gcaccctact acacagaaat ctaggtaata cgagaccctc tttttttttt attacaagggt 120
tgagacggcg ggggtggttt gtgttgataa attaccaaac cttcactcat atgcttggaa 180
aatagactat tggatggatc tcacggcgtc ctttaagcgg gggggcactc ctgcaacatc 240
ttaccgggag tcaaataatg cgacttatac gcatgggtgc ccgaagggtc tacatccata 300
tctaaacaac ttcctcgtgt aaagatgacc tttcgacgct ccattattgt ctgttacgta 360
atattattca accactaacg ggaagccttc tcttgcgata tagtctacct gacgggcac 420
tatgcgcatc tactgcaata cacatcctgc tattgggtctc acctacttcg ttctcataga 480
gaacacgcag agaagctcgg ggtgattgaa gtcccgctc agaaagagggt tcacaacata 540
cttggtgcgg ccgtcgggtc actatccgta tcttctcgta tctcactaga aatcgacgta 600
cagactcggc gatatatcgt caccgcacta gcgtacgtat gtatgggact cttocaccgc 660
acgtaccttg ctagacataa tgggtgcgcg acctaggaag aacgtctgta aactggggac 720
tgctccgtga acgtaatata aaactattag acctgggttg cacatctatg atactcttcg 780
catgctggta actattggat acattgtcaa gtatactgtc atctgtctgt ctacatcgaa 840
gcctcatctc tctcatggga gtgcgaaaga tgctctcgcg taatcgatc ttaccgcgc 900
tatgcttctc gcttgcgaca ntaaacataa ctgtaacctc ggccgctgta gtcccgtag 960
tatgganaac acgtcctgtc ttcttctga attctctntg attgttctcg ctgtggtatc 1020
tacgtcaacg tcgaaatcgc gtatatactc caaacgttcc tctgctatat cacactagta 1080
atcgctatgt cttcctgttc tcttcg 1106
  
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<210> 3354
 <211> 171
 <212> DNA
 <213> Glycine max

<400> 3354

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agcttcaggc tgctcaattg ctccagggtt tttcatggaa gggcaaaagt ctgtatggtg 60
  
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gtcagcatag gagcacaac cacaaccct tgcgataggt acatatttct gattcaaggc 120
cagctgggtt accaagttaa ccaatgcac cagtttgcct tcaagcttct t 171

<210> 3355
<211> 756
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3355

aggagctgtg anttatggtt gacatgcaga aacntcnna ttgggcncnc nccccgggag 60
atgttattta gtgaggagg ggtttcttgt ctttttcaca taataacaag gggccggggg 120
gtttttatat taaaaaccct ctcttatga agaatttcc aatgaaatgt aggttaagag 180
gtccaggtag gtaaggagat ggaagaaaaa gaacggactc gtgatcatga tcttcgttta 240
aataacgtta gactagactg tttgaaaca actggagtgt gggtatccgg agcgaacggt 300
cagctatgga ctagtagatt catgattata ggaagaaatt ggcactgggt gttgcaatat 360
ggatacttat atgtcacgtg tgaccagaaa tataattgga ttttaagccta gtttggcgaa 420
aaaagagggc ggtagagaat taaaccttgg ttacggggta tggaatcatt cgaatgcgag 480
cttactagta aactctgtga ttactagggt agtaaaattt gtctatccga tatggttcat 540
gtggaacctc ttagggtagt attagcagat ctcttcatta tgatatatct gatgagatat 600
tagacgagat tatattaact gtaatgttta tgatttacat aatcaatact cggatataat 660
tgtaatctgg tctgatatta cagctgatgg acataaataa atgtatagaa ttatatgcgc 720
aacggagtaa ccggatgata cattgttaaa tgttag 756

<210> 3356
<211> 173
<212> DNA
<213> Glycine max

<400> 3356

agcttgacaa gccggtctct ttaactaaca atattatata ataactttat tttatcaaat 60
cttatcttat acagatttta tttcgctcag attttatctt atccaatctt atcttatttt 120
gcccagattt tattttattt cgtttatggg cttggactta aaatagattt gta 173

<210> 3357
 <211> 607
 <212> DNA
 <213> Glycine max

<400> 3357

taaagtaaaa attgagagaa accattttta ctttaaataa atatgtgata tgtgagggttt 60
 tatagacatc aagtatgatc ttttttagtt taaaaaacta ataacaaata ttgatagggc 120
 taaagctatt ttatttttgg accgatcatg cactcactcg taaccagtaa ggttttcttc 180
 accaaatctt gtaaagagga ccatgaagtc catgacctca aaggctctga gggaaattat 240
 attggagttt tgaggatacc taagttgttg taaaataaac gtaacttaca aaattacggg 300
 agatgactgc gcacactttt ttttattgaa tgataatcta tttaaataca aatttattgt 360
 acagaaagaa acaatgatta cttattttct aaataataac caatcactaa cataaccgct 420
 agtaggtaat agaaaataaa acaataatc ctaaagacct tgtccaacga tttatagaaa 480
 ataacaaact aacagacaac tgctgatata cgttcaacac tctctctagt agctcaagat 540
 ttactgtagt tgaatctatg gctatcttaa tgctctcttt ttcaacacac aatgactttg 600
 ctttaat 607

<210> 3358
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 3358

tgagcaaatt caaacgacaa taacttttga ctggaatgtc ctattgtggt ccgtaggata 60
 tcgagacact agtaattgaa aacggaagct ctgagaaaaa tcaaattgaca ataacattta 120
 actcgatgt ccgattgagc cctgtaatat atcgagacgc tcgaaattta aaacggaagc 180
 tctaagaaaa gtcaaacgac aataactttt aactcgatg tccgattgag tcccgtaaga 240
 tatcgagacg ctcgtaattg aaaacggaag ctctgagaaa aatcaaacga caataacttt 300
 taactcgaat gtccgattga gccttgtaat atatctagac gctcgtaatt taaaacggaa 360
 gc 362

<210> 3359

<211> 777
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3359

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aaagcgcgtg gggaccccc caagatttta caaaatgaag cagtgttttt tttttttggt 60
aaaggggcgt cagggggggg attaaggggg ggtttgatat taaaaccttc ccgattgtat 120
tcaaattaga gatccgggtt ttagttttac ccaagaacct atgagttctt ttaaggacga 180
actcgttgtc tgcnnngggg gggggggngg tnggggnntt ntnggggtgg ggttgggggg 240
gtgggtggn nggtgggggg tgggtggggg gggggtgggg ggggggnntg ggggtggggg 300
gaggggnagg gggagttntt tnttgggggt gtgggggggtg nntaggtggg ggggggggtg 360
gggggggtgg ggggggggtga ggggttttgg gggntggggg gaaggggtgg gggggggatg 420
ggggaagagg gggggggggg gggnggaagg gggggggggg tgggnntggg ggggtggggg 480
gggggggggg gtgnnnnntt ggggtggggg ggggtnnngn gggggggggg gggggaaatg 540
gggggggggg ggtgtgggtg gggggtaatg gggagagggg ggagtggggg gtggtggggg 600
gaagaggggg agtgggggtg ggggggggtg gggggggggg gggnttgggg gtgggggggg 660
gggtgnttnn tgggtgggtg tggggggggg anantgagat tggggggggg gaggtggttg 720
tgtggggaag aggggggggg gtgggnnnct gccggggggg tgggtggggg ggnagtg 777
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<210> 3360
 <211> 643
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3360

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gctctaaatt tacattgatg tttgtattga tgggaggagg ttacatgcca tttttgcttt 60
aagagtaacy tcccactggg aaaactaact ttccaaatgt ttgccttcgc aggaatggcc 120
ccgaggaagc ttgcctcaaa gaggtccagg aaggacaagg cggctgaagg aactagttcc 180
gccccggagt acgacagtca ccgcttttag agcgttttac accagcagcg cttcgaagcc 240
atcaagggat ggtcgtttct ccgggagcga cgcgtccagc tcagggacga cgagtatact 300
gatttttcagg aggaaatagg gcgccggcgg tgggcaccac tggttactcc tatggccaag 360
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tttgatccag aaatagtcct tgaattttat gccaatgctt ggccaacaga ggagggcgtg 420
 cgtgacatga gacccctgngt taggggtcag tggatcccg tccgatgccga cgctatcagc 480
 cagctcctgg gatatccgat ggtgttgaa gagggccagg aatgcgagta tggccagagg 540
 aggaaccggt ctgatggatt cgatgaggag gccatcgccc agctgctatg tatanccggg 600
 caggattttc ccggactgct gcatggaggc gagtgcgaat cat 643

<210> 3361
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 3361

atgcaagctt cagttttcaa ctacgagcgt ctcgatatat tacgggactc tatcagatat 60
 ccgaattgaa aggtttttggc atttgacttt tcatagagct tctgttttca atttcgagcg 120
 tctcgatata ttaaagggct caatcagaca ttccaattaa aagttattgt cgtttgat 178

<210> 3362
 <211> 524
 <212> DNA
 <213> Glycine max

<400> 3362

cttctactta tgtggcaggg cgggcttctt tcaccttctt gtcttcaacg cgaactttga 60
 ccattgttct tccttccgcg gatgcttctt ttcattgtccg cctgagtggg cttatagcct 120
 aaaccatact tcccacgatt tccttgggta tttatcaggc tagttatgcc gccgttggtt 180
 tttcctaaac ccatcccggt ttcataaccg ttccccaaca taactcgggc catcattacc 240
 gctgcatcgg acagacaagg ctgcccaaag agggagtcca cggaggaaat gctgaccacc 300
 tcaaaagact ggaaagcagt ttctaacgat tcttctgcgg cttccacata aggcattggag 360
 gatgggcagc ttaccaagat atcttctctg cctgacacga tgaccaagtg cccctccact 420
 acgaatttca gcttttggtg gagtgtagaa ggcacaactc cactgagtg gatccacggg 480
 cgccccaaca ggcagctgta ggggggggta atatccatta ttg 524

<210> 3363
 <211> 174
 <212> DNA

<213> Glycine max

<400> 3363

gcttcagaac tttactactg ctatTTTTTT tttcgatcgc taaacaaata tatttattaa 60
taaaagggca cgagaaattc atacaccata atttcagtgg gcgcacgcac accataaaca 120
taaaatgatg agtgtacgtt ttaattatca agcaaattat aatataatag taag 174

<210> 3364

<211> 610

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3364

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atggcacaac ttaacctcac attgctagcc attttcctct ctctcctctt ttcaattctg 120
gccaccccg gtagttgaac cgtcaaggca caagaattct caaacaatga cctggttgaa 180
ttttaaggga tccttataaa atattaataa ccactatgaa cacattacat tatattatca 240
agaagagttt taggaatatc tgaatacata atgattggtc aaacaaacgc aacgaaattt 300
gaatttgtag gtgatttctg atctatgtgt tttttttaag atctgttacg aaatattgta 360
gagataatga ataaccgact aacagcgtaa tgggggactt catgattctt cctcaaccaa 420
atttttttta tttctcttta gatgaggaaa agagaaacta tgtgtgtgac gaactcgtat 480
attggggacc ataacattct catagcgtgt taacataggt ttctcattat cccctaattg 540
ncaacactga catnngttca gttaaatcta tattatctaa tttatttggc taacaaactt 600
actttaattg 610

<210> 3365

<211> 179

<212> DNA

<213> Glycine max

<400> 3365

catgcaagct tctaaacttt atacaagaat gaagctctga taccacttgt tggacaagtg 60
gcctcagata tcttaagaag ggggggttga attaagatat aacagactat tccccatta 120
aaaattctac ttttaattta acccaacaac ctatgattcc ttttaaacaa gaactccaa 179

<210> 3366
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 3366

gcttagtgaa gtggttgtga ggtttatttc cagcattcat ttcttgtatg cacactttca 60
 acataatctg agtattttta taacaccatt ctgctttctt tctttttaca agaacttgac 120
 cgagagacat ttgacaagct taacgaaaca aacgacagcg ttccaaggag gaagaaaatg 180
 tgaccaagga agaagaaaaa gaatgacgaa gaaaaaaacc tgtgatgcta acaaaggaag 240
 aacaaaaaat gacgaatgat gatcggaaga gatgaccaag gatgatcgga agagatgacc 300
 aaggagatcg gaagcatggg agaaaaattt cgaggaaggc acagcaacgg tcgttctcac 360
 gaacgagaga caaathtagg gttcagaaaa atgacgaggg tttgcttgca ttttga 416

<210> 3367
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 3367

gcttggttgg ctttaccaga tttatattat aaaaattaat tttatagggtt tattgaaaat 60
 taatcatatt ttatttttta atttattttt tataactctt ttattagctt ctactatata 120
 tagagagaga gtaaattata ctagaatgag agttgaataa tatgttact 169

<210> 3368
 <211> 580
 <212> DNA
 <213> Glycine max

<400> 3368

taatgacctt gttcatgttc gttacaactt gaggttaciaa cttatgtatt actatattga 60
 ttatgctttg attgtttact tattttgctt ggattttttt ttattgatga tatataacca 120
 ttttgatcaa tttttctttg aaaacccttg atgaccattc taattgggtg gtggaggagt 180
 ctccaccatt cttaacttgt gaagaggtgg aggcctttacg taatgatctt gctaacatgc 240
 ccatccaatc aacttttagac gatattaata tgtgtcttta taacattagt atttataagg 300

taccacttat gtacttatat taattgctaa tttgcâtcta caatgatggt gccacagata 360
aattaaatct ggatgaagat gacgatgatg atgtgccaca accactacat cacactatgg 420
aagatgttaa tccaaatgaa agcaatattg gtgaagagcc tccttctttt gatggagaaa 480
gattacttga agttgactca atattggctc cttggatata attatggatg gtgtcatatt 540
taagctatth gtgtctcttt atthtatggac ttatgttatt 580

<210> 3369
<211> 179
<212> DNA
<213> Glycine max

<400> 3369

agcttatttg aaaagctttc ttgaagaagc ctagatctta tctacacaca cccctttaat 60
aactaagggc acctccttga gaagcttcct tgagaagatt cctagagaag ctagagctta 120
gctacacaca cctctctaath agctaggctc acctccttga gatgagaagc tagagctta 179

<210> 3370
<211> 599
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3370

taagctcttt cttaagcttt ttctacaacc ttttctcccc ctttggtctt atttaaaagc 60
caaatatgac aatggagtaa aaaatatata taaatatcaa agtataaaac acaagaagcc 120
aaactcacia agaagaaata atcaaaccag aatccaaata actgaaaatg tcaacaacca 180
caaaacatcc aagactgaaa tttaaaacca caagataaat aagcaaagta cttagcataa 240
taatgtaaat tctaagaaac taaaagccaa aatacacggc ttataaaaga taaataatca 300
gaaactaaaa tctaagaaga cggaggtggt ggtggaagat cgaaactctg acgaatgtat 360
ccgacatcct cttcaatctg tgtaagacga atgtccatac tggcaaagcg tgaatctaac 420
gagtcgaaac ggtcaccaac ataagaacga agaccccgta attcggagag gacttcattc 480
atgagtgcgg aatcttcacg ttgaggggga ggtgaatgag tacgtccatc ttgaggaggg 540
agtgcathct tcttcagcca ttgtccattc cgatctttac tatagccaaa ggaggccac 599

<210> 3371
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 3371

agcttatact ctgcttcccc ttttctttaa catttgcttc ttgcactttc tggaaactct 60
 tcgaattttt tgaagcttca aatgcttttag cagtcgactt gtcaaacacg acgttacaac 120
 aaagacaaaag cataacctct ttctcaactt tttgtttctt caatagaaat tc 172

<210> 3372
 <211> 533
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3372

attagtgtac catacaactg cagctccagc caagctatct tgtaaaaaag tgtatgaaca 60
 actttgcatc cctagagtgt gccccatct tgcgacaata catcttgaga tggttcttag 120
 gacaagtcgt ccctttatac ttgtcaaat caagcacttt gaattttggg gggatgacaa 180
 catccggtac caagcaaaga tctgtcatgt ccacgaatgg atagtcacca aatccttcaa 240
 cagctctcaa tctctcctcg aggagatcga gtttccttct ttcttcgggc gcggggggtg 300
 gtccttctat ggacaagaat attgggtgtg ctgtgaggtt gggctgaggc aacgtggttg 360
 gcaccggccc ctgcacgagg atcggagggt agaaatcgac atccncttgg gcatactctc 420
 gatgatcttc atggaccgcg tttaggggag gatggtgcgc ggtagctagg atagatgggt 480
 ctgcttcggc accccaacta acagcggcag cgggtggccgt gttattctcc atg 533

<210> 3373
 <211> 167
 <212> DNA
 <213> Glycine max

<400> 3373

agcttatcaa cacttttata tataacaatt actggatttg gtttatgttg atgaaggtat 60
 atggtagcat atacttcaga tcatctttct tcaagtgagt ttgaacccca accgtaagaa 120
 aggcagtaag gcacatgttg tgagtctaga ccactcacia gtattttt 167

<210> 3374
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 3374

tggcaagttt gtattgtaca aatgggtccca gagtgcccct tttattatgt actcataaac 60
 cagtatattc tcgaaccttt tattgcaagg tgctgtgac gaatcttata caaaatcatg 120
 atctctctct gaaattctgg aaggccttga cctgacctgt taagaattat tgattaaatt 180
 tattatttat tatattataa ccaggtaaga actaagatca ttattaatat atatatatat 240
 atatatatat agatatattg atatcttaaa gattggacga accataactc ccatatatga 300
 aatgataaga ggttggtgag ataaatggag attttaagat gtgtattaaa acattgtact 360
 aaaaaagaat aaccgaataa cagagtactc ggggacttta agattatttc tcatgcgaat 420
 tttttttatt tctctttta 439

<210> 3375
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 3375

ggcatgcaag cttctttctca acaggatgat aaaacctata tttctattca ttctcaccat 60
 agccaatgaa gatacactgc cttgactttg catccaactt ggatctctta tcctttggaa 120
 catgcacaaa agccttgag tcaaaaactc ttaagtgact atacttcaca ttctt 175

<210> 3376
 <211> 627
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3376

tgcattcgat agtggagctc atccaatgga gttattaatg ctaagaaaat tcaggtttta 60
 aagaaggagc tgaatgcttt ggaggctggt atctctgaca gaattctgaa tcaatttgaa 120
 gtggagctca agaagtctct tcaggagcaa ttgtggcatg ctgctaatgc ctatgaatgt 180

atgctgaagc aaaaggctat agtgaaatgg ttaaaggaag gggacagaaa ttcagcttac 240
 ttccacaagc tgataaatca tagaagaaga cataatgcta ttcaaggatt gatcattgat 300
 ggggaatggg ttcaggaccc tagtagagtc aaaactgagg ccttcaatca tttcaaagat 360
 agattttctg agcagaatth taatagacca accctggatg gtgtgcagct accttccctt 420
 ggtcaaagtg agaatgaagc ccttgtggcc agattttctg atgctgatac agtttgggta 480
 ccaaagcca tcaagaatga taacaaagca gtaatttaaa ttaaattcat cttagctnnt 540
 ctattttatg atcactctcg attgctggaa tgggaagga aatgggcttc tttatacgag 600
 gaccctatac agctgcaatg tgacatc 627

<210> 3377
 <211> 171
 <212> DNA
 <213> Glycine max

<400> 3377
 agcttgaaga gtcgagactc gtattgggtt aattgattac caatatctca taatcgatta 60
 cactgttatt tgatttattc aggagtctct actttaatcg attaccaagt ggtttaattg 120
 agtacttctc tcttatttag ctgtgcataa gtgaatagga acactttaat c 171

<210> 3378
 <211> 639
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3378

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 ccactccgat taagatgttc ctcttggtgt ggtggttcgg cgaaaagcaa cggcggctca 120
 tggcggccat tgggtggtcgt ggggtggcaga gaagaagggtg ttaagggttg ggtggcggtt 180
 tggagaagag gagagtgaag aatcggtgtt ttacagctga ggaacatatt tataatctgc 240
 aaatctcgct tagcgaggtc gtctcgctaa gcgggagtc acttttctca ctcaacgtgc 300
 aaattctcac ttagcgcaac ttctctgca ttatgacttg cccaacaggc caattctcac 360
 tcaacgcaat tccctctcag gttggaattg cgcttagcgc acccttcacg cttagcgaga 420
 catcaaaagt tggtattttc aaaatcccaa tagtcagact gtgcaaaaag tgtctttgga 480

agctccagac aaaatttgaa gatgatccaa cgggtaacga ctctaggatc gcgattttac 540
 taanataggt tttgggtaaa atctgaaatc tcataatttc aacttagtta aacaaaactc 600
 cacataactc agcatccaca tcaagaaatc acacatgac 639

<210> 3379
 <211> 155
 <212> DNA
 <213> Glycine max

<400> 3379

agcttttatg actacaacca caacttgcgt tggacttgac cccagctaag acgattgacc 60
 accgtgtgaa tgccgtgcac cctgaacaca gcggcgtcct tgaaatacat tttatgttat 120
 catacatagc tgcattgagg gagcatcata ccaac 155

<210> 3380
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 3380

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 ctatgtgaaa atgctgatat atgccattct acgcttgggc atatatcaaa ccctgttttc 180
 agtcgtttga ctaataataa tggaacacaa atctctgcga aatgatcttc gtctaagaga 240
 tctatctgcc cactctctaa gattgggaga tcaaactttg ctaactctaa caatagatat 300
 gatatacctt ttgattgact ccattgcgat ctatgggggc tagtgcccac cttacatatg 360
 aggggaataa tatactcctt aaaa 384

<210> 3381
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 3381

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 gtacaaacct taaactggag cccgttcccc ccatttcttt ctacaaaaaa gaaaattaat 120

accgacaaaa acatggatga aaccctaagg atgccaagtt catgtggatt tctgaagaaa 180
taggatctat attccatcaa acatagaatg accattgatt acatgtaata tacttttttaa 240
aacatgggtg ccccaaata caactaaaa gcacaactac cacatcttca gaggcctttg 300
gtaaatgggc t 311

<210> 3382
<211> 165
<212> DNA
<213> Glycine max

<400> 3382

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caacatacaa aaacattggc aaacaagttc ttcaaagaga aaaaatagaa cttggcacia 120
gaaggtctac caacaaggca actagtaaca acaggggggc ttcaa 165

<210> 3383
<211> 393
<212> DNA
<213> Glycine max

<400> 3383

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cgctttggag aacaagagag agaaaaatcg tgtttttacc cttgaggaac atatttataa 120
tcttgaaatc tcgcttaccg aggtcgtctt tctaaacggg agtccacttt tctcactcaa 180
cgtgcaaatt ctaacttaac gcaacctttc tctgcattat tacttgccca acaggccaat 240
tcttactcaa cgcaatttcc tttcaagggtg gaaattgcgc ttaacgcacc cttcacgctt 300
agcgagacat caaaaggttg ttattttgaa aatcccaata atcagactgt gcacaaagag 360
tcctttggaa gctccagaca aaatttgaag atg 393

<210> 3384
<211> 179
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3384

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 ctggggaaga agaatgtggc atttacttaa ggtgaaagat aagagcaagc ctttgctttg 120
 ataaaagaaa agcttactaa ggcacatggt ctagctcttc ctgaattttt taaaacttt 179

<210> 3385
 <211> 1081
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3385

cgccgtcata cactattaca ctgcgttaca atagcttatt aatacactct ctaatgtaag 60
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 tacgctcact acgacgctaa tttcccttcg gaacatgcaa cagtcttaga aaataataaa 180
 aactcaaata agggaaaaag aggtaagttg gtctgaaatc taaaatatcg acgaaagggg 240
 cacagaggag ggtttcatac tatgaaatct ccgatatgag acgcgatggg ttgtccgaag 300
 acacataaag cagagggggg ctatattatt actatcgata agaaaacaat agtggaatga 360
 tggcccgcta tgagatcgac tagtgcagaa aaccactggg gtactagacc gaaggagccc 420
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 ctaagccgaa cttggcgaga atgtgaggac ctttaggcac ctaacatacg gtgctgcggg 540
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 tgctgtgaac tataccaacg cacgaagaga tcgacgactc acgtaaccgc acatccacat 660
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 gtaatcgcta gacttgagat acatacgagt acatgactcg aggacatagg gcgaatctct 780
 taacttcgca tngtcgtcgt ctggatcgcg caatcgcggt tgatgogaga ctacttcaga 840
 caatatatat ataccagta agaggcgtct cgcttcntcg cgctcactca tatgatatga 900
 tcagtangat agtgctgca aagccacttg tgatcttcgc gactgggtact gcagtatata 960
 tcaattgacg ctcaccagtt tcgagaatat agctatatcg ngtctgcaca ctgcgatcac 1020
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 t 1081

<210> 3386
 <211> 1126
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3386

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tgtatcagac ttttaacactc tccactacgc gaggganttt atgcatcctt tgetgacctt 120
acaatatagg ctaacaccct cggacaaact aacaagtcga taccaagcac tgttctaaca 180
tcgacctata gttacacgcc ggagaatata ctggccgact gtttaccgct ccgagactgt 240
gatattcctc gtcaataccc caactctaaa tcgcgcattg cagactcatt accccatttc 300
cgccgagact ggcagtaa at agcggcaaga atggaccaca ttccgatacg cgctctttga 360
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ttgctaccta ttacgcaatc ttgggtgcga gatttgtaca gcaaagtgtc taagttgggt 480
gtcaactact gtagattcac aacttaggat cgtgtgtggc cgagactatc gcttaattct 540
gatgatcctg actacaccgt accgacaacc gcgcataat gacgattgat acttgtgtga 600
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cagatgtcta tctccacgac agacgtatca acgtttactc tcgagtgtgt agtcaattag 1080
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```

<210> 3387
 <211> 940
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3387

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accaaggcac acacagccca tgcacaccac gccaacggc acacaccaa tgcacctgac 540
ccacgacgaa ggggcccgcg acccccacac gccaagacac agccatagag acacaccaac 600
ccaccggccg catccagcgc gccaacgga gcaccagac cagatcaaca ccgaagcggc 660
ggcccaaact acagcaccag gcacccaac cggaaggaaa aacagcgcaa agaccgcga 720
accacaaact gcagcgcgaa ccagcggaac acacaggcgg acacgcgccc acaccaccgg 780
cgctggcacg gaccctacg aacccaaaca caaacccacg ccgcgcgcgc aagcagctcc 840
agcaagagcc acacgccac caccgcgccg aacaaccaac cacaggcacc cgcgacgcaa 900
cccaaccacg cccaacaaaa cagcccccac ccaaccaagg aaacccccac tccccccgg 960
gccaacgacc cccacccaa cggcaccccc accaaaccac tacctaaca aataacacac 1020
agcactcgac acacacgtcc accgccccca cccc 1054

<210> 3389
<211> 1085
<212> DNA
<213> Glycine max
<400> 3389

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actgtcattt agcgcacccc taatccacat ccttactca tctcaccoga cgtggtagca 180
actcacattc tccacctttg tatttcattg gaagccaatg gataccataa tactcctgca 240
ggaaacttct gtccaacaac gctttatttg gctggtagca gagaaaacca tccaataca 300
cctctttgcc tttagtgcaa agctctacta ggccctcaac cctggcacca ataaaataac 360
gactacaatg ggcatgcccc aatcttcttc taacagtaga attgtctatc cactgtctta 420
atctattctc aggacaagtg ggattatgtg taaccattta ggtcgtaaca catacccgcc 480
taagggttag ccccttaaata ctaacgaaaa acaccgcttt aactatcctt cataatgcta 540
gtatgcccta tcccttgacc ataaggcttt aaccattcct agtgaagtaa cgtggtagt 600
caagggttta cccacctctg attctgccga acaaacatgg tttaactcac gcttattatt 660

ggtataatgg aaccaaggtg tgaacctctc caagaagtgt gaacttctga tcattgattg 720
 ccttaatcca cttaacgac aggaacgcaa tatccaaggc caattgggat aacatcactt 780
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 aggggtggcta taacaaccta tgtgggacac gccaaacaca ctgtacgtgg aatgctatat 900
 cctcccttta agggcctaga ccatctaccc acatgggttat accggtctta gaacaatgag 960
 ttgactctca ctgttatatc cacctacggg tacgataaaa acatactgtt taagcgaagt 1020
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 taaca 1085

<210> 3390
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 3390
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 atattctaata caaaatacaa actgattaag taggctaaaa aaactgatat aatatcttat 120
 catatattct aataacttcg aaattacccc acaaaaatta tttacttcga aa 172

<210> 3391
 <211> 1422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3391

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 accgttctntn tcacactntc acactaccat ttataatant acataaantc tcancgcaan 120
 tcagctagaa cacngagtcg gggancntta attcgattgc ccttgctgcc tncaccgtct 180
 atgatattaa taaatacctt cgaagcntcg tctacgaat gaccaactat ctctgggact 240
 atatgagaac tacacatata tgagttctga gtctagtact cccatcacat gncgtgcac 300
 gacacactac ctgcactaag tagggctactc atcgggtactc ccgtgtctct cacacactcc 360
 tctcaccaca cgctattcat aaagaacgac gacacacgat aagaatgcga cgcacgacgg 420
 ctgtaacaat tggcgcatga gacggatcca tcgacgcaaa catcaggact gactgctcgt 480

aagaggagac gtccggcatg tcagaacttc acaagaccat tggtcctgct gcgcatggcg 540
aacggactag gcaggcacag gggattacac gtccacgaca aggggtaaca cacgcaacgc 600
ggacgatagc gtcgcaacca agtgtcgcag tcacgtcacc gtccaagagc gacctactac 660
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cgaccctctg gacacgcatg caaccatcag tactcacgca tatggaacga gctcaccatg 840
cggcaaaacg cagacgcagc cctctatcac tcagacttct tcgttcgtag atgcgcacaa 900
actattcggg gcttcacccg aatgtctcca cgagcactgc acagtacacc atctgagcgt 960
tcgtacgcag accgcgcgcc gatcgcatcc gatcatacgt gacgaacgca acatangcgc 1020
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cacgactgac gagattatgg tactgacaga ggagacagtc gccgtaccat caacggacga 1140
cgttgagnct aaccgtgaca tacgactact gtcgnacgct gttgcaatac ngatcgatat 1200
gtcacatatc gacatgatcg ancgcgctac gcatgtggag tcagtgtact gcacgtcntc 1260
cagagacgac acctcgactg tacacgttga gtagcactga gtgcgacgac tgcgncntgn 1320
catgacacgt gtcatgtgng tgcacgcgta gcgaggaccg atcagagacg atgaagaggc 1380
ncacgtcgag caccgtgact anagacgcga tacgtcncgc gt 1422

<210> 3392
<211> 381
<212> DNA
<213> Glycine max

<400> 3392

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aaatattact accatataac tttggatgga ttattaaaaa atatggtcaa ctaagtctat 180
agatcttgaa ctgtatcaaa taatggattt caggtcttaa acacaagtgt gattaatcaa 240
aatctctaaa cattgtttcg ctaaaatttt agatcctgtg cttatttaca acattaaatc 300
atgatattga tgtgacactc aaactattat tattaaactt gggtacattt tgcagcggt 360
aaaaattgtc aaaaatttac t 381

<210> 3393
 <211> 170
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3393

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 cagagtggta cctggagata tgtcgcgggg gtcaggagac cttggggacg tcaggtgggg 120
 tgctattgcc caaaaccaag cttgaccaat cccgaaccaa cccgggcata 170

<210> 3394
 <211> 632
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3394

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 cttcaacagg cttcttttgg ttgggatgtg tgctctatca cacaagattg aatggtcact 120
 agcaaccata ttgtcaatca attccatggc ttcttcaggg gccttcaatt ttatttttcc 180
 cctgcagaag catctaaaag ctgcttggat tgtggcctta acccgtcaat gaaaatattg 240
 agcaggattg gttctaaaaa tccatgagta ggcgtctttc ttagtaacct acaaaatctt 300
 tccaaagcct cactcaagga ctcgtttgga aattgataaa aggatgagat ggcagctttt 360
 ccttcagcag tcttggaact taggaagtat ttcttcaaga atttttcaac cacttcatcc 420
 taagtcttaa gactgttacc tttaaataaa tggagccatc tttttgtctc tccaaacata 480
 gaaaatgaaa acaagctcaa tctaacagca tcttcaggca tgccaaccag tctaacagt 540
 gtgcaaattc caatataagt ggctaaatat gcatatgggt cttcatttgg cagaccatga 600
 aacaanatgt tctgaatcaa ctgaattaat ga 632

<210> 3395
 <211> 167
 <212> DNA
 <213> Glycine max

<400> 3395

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 cctccattgg tgggttcttca tttttcttca tgtatctcct cacatgtctt gttttgaata 120
 ttgttaacat gatttttttt aaaatttcca ccaattaaac ttgctat 167

<210> 3396
 <211> 1106
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3396

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 ntagtctata ntatatcatc tataatctgaa gatnanacat ttaccnacac acnctctcn 120
 cgtacgtgnt ttgaatcgat gcatttaccg aactcttata attctcanga cctgtcgtcg 180
 caccatccga cccgaacgtc cacactatgt gaccgacatg gtgtttggtg ttcttcccaa 240
 tacatctcta acaaaggctt cgaggattga ggggaagatg tcttgaagag ggtgacaacc 300
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 tatatgtgcc taaacaccga atgcgtagga cccaatacct cgaccccaa ccccgggcaa 480
 tagtactggg tcaggatgag acaccttgta gactgttacc ataattctag gactaagctg 540
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 gttgggatac atcttatcat atctaaattg agacctatca cctttattgg ggaggcaggg 960
 tgttttcgtg gtcttcaccc ttcattcgtc tcccacatat attaacactg gtgccgccat 1020
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 attttcatct tattatgtca ttccca 1106

<210> 3397
 <211> 319
 <212> DNA
 <213> Glycine max
 <400> 3397
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 tcatcagtct cgggtgatgg gaacttttgc tgggtaccaca agctcttgca tatataaaca 180
 ctatattgta tggatacagc aaagcttaat ccggtgcatt ataaaagtat ctatacgtac 240
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 tgtgacctcc catgtgaac 319

<210> 3398
 <211> 525
 <212> DNA
 <213> Glycine max
 <400> 3398
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 atctcaataa caaataataa tggcatatga aagacataag tgcattgcatg ctaataattt 180
 aataatttca tgttttaatt tgcattatga taattttgtg attagtaaaa tcagatacag 240
 ttgtaaactt tcacactctg actcatgagc accctcattc ccactattta attgatagat 300
 cccctctaac aaactgtcta taactatttg tcacttccct tctatcttaa atgagatggc 360
 tcatgtctc ccccccccc cttcatgtct tagaagatac aaatttcaca taacacccaa 420
 cttaatgatc catcaattta aattgagtgg gaagacaaaag tttacaaatt cagaaatttg 480
 caatctttta cttgggtgaa gttgaactct tttacaaact ctgac 525

<210> 3399
 <211> 172
 <212> DNA
 <213> Glycine max
 <400> 3399

agcttaacaa actctgattt tgtaatatc cttgtgctct aaaagataag aattatgtta 60
ctaaggaata gtatatataa ctatgtaaat aagccagcaa gaagaatgaa aaattacctt 120
tatctaattt ctcttctctt gtccatggag gccatgggcc tcgaaaccag tt 172

<210> 3400
<211> 431
<212> DNA
<213> Glycine max

<400> 3400

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atcttaatag ttcttctaata gtatatcagc tgtttggatg gtctcacgtg attaccctgc 120
ctgacatcat agactaaaaa caattttttt aatatattaa acaatttttt ttaatagtga 180
ttcaaccaa atcggatata tattatatac gtaaaagtta tttaagatta aaataaaaac 240
tatatatact tgcacattaa gtagtaaaaa tatatgagag ctgcacacta accaattaaa 300
tttaatgtga gctgaataaa tttaaattta atgtgaaccg actaaattca aacaccctaa 360
gcattatagg accgattttg tattttttat tttcttgggc aattaattta attttaatgt 420
aacacttaac t 431

<210> 3401
<211> 176
<212> DNA
<213> Glycine max

<400> 3401

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atttaattat ctttgggctt gtcgaccacg atcaacaaag tactttcgac agctactata 120
tgttgatttc accaacgctg ttatcggtat gctgcgacaa tccttcaata ctttat 176

<210> 3402
<211> 546
<212> DNA
<213> Glycine max

<400> 3402

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gcaacattgg tcgagttttg taccttgact gaccaaataa ggtttttggc aaaacgggac 120
 acaaagtatg taggaatcct catcttaggt ctatagcaca agcttcatat tgaatttgta 180
 tcatgagaag tgtatacatg gtttagtgag acacttggat gtgaaaaaga ggaagacatt 240
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 gccaaagacat ttgctatcat cacaccaaca cttagcaatg ccaagggagt tgatgcaacc 360
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 taaaaaataa ttgcaaaagc aacaacagct tgagtagcca acaaggttga aggtggacct 480
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 gcttga 546

<210> 3403
 <211> 177
 <212> DNA
 <213> Glycine max

<400> 3403
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 cttaggcact tctttctctt tcgaatttgc ttaaaaaaat tgtttccgtg aagaaaatcc 120
 aagccgaggc gcttccgtaa cgtttccgtg aagaatttcg cgaaggtttt cgaccgt 177

<210> 3404
 <211> 602
 <212> DNA
 <213> Glycine max

<400> 3404
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 tggtttttaa aactgaaatt catatggcac gcttagtgca cagctgcgct tagcgcgtca 120
 atgcaacggt tgggttttga gcaaccctgt gcttagccta acctagtgtt aagcctaact 180
 tgaggtttca aattccagtg agcatttggg gcttagcgca gaagggtgtg cttagcgctt 240
 tctgcaacac aaaattttct gccatatgcy cttagcctga gatgtaaggc ttagcgcgca 300
 atcaagcttc aacttacaga gagtagttca ggcttagtgc aacaggcgca ctaagcgcac 360
 ttccaagaat tcaaaaacag taagagattg gcgcttagcg catcctgccc cgctaagccc 420

aagtcacgga gttcaattac agaattggata tggggcctaa ctcaggacag cgtgcttagt 480
gctgctacaa taaatttttt ccagagaaaa agtggcgctt agcgcatcat ctccgctaag 540
cccactgctt gaagtctaatt tctagtgaag atgttgggct taacgcgatg atgtgcactt 600
ag 602

<210> 3405
<211> 173
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3405

agctttanaa caagctaaac atgcaaaacta aaatttgaat caaaaatata aacccaaatt 60
ataaaatggt ctaaaagcag gaaatgataa taaaagtgtt caaaagacag gaaaatagaa 120
tataaatcct gtcacgagtc ctatgatgct ttagatgggt catcatatgg agc 173

<210> 3406
<211> 601
<212> DNA
<213> Glycine max
<400> 3406

gctgaatatt ccaatgtaga atatcggttg tataaaaaaa atgtttttta acaatggaga 60
ggaagtattg aagtaacact aactaataaa tatttcttga gcaccattgc agatactccc 120
aagtcaccac atagatgttg gtcaatcttg ttgctttcta actagtctca aataacatca 180
ctcagtcaaa taatcaaatg aaaaatcaac tcatatctca tgcataattaa tttttcactt 240
caccgtatac aattataaaa tccttttttt tcataagcta taaatcaaatt acttatatat 300
caattgaaaa tatctcataa ggtaaaatct aatccaacct ttaccataag ctttggttaa 360
gcaagccaga cacaaatata tacttgtttt gtgctctgca ttattacaca ttattcctat 420
cggttggtta taacatagca ccacacatac acaccactca tatctcattg attaaactatc 480
aacactgcga ccatataata tcaactcaata ttccaggtga gtaactgagc tggtaattta 540
atatgaccac tgcataatag aagaaaaata aagcaatttt ccacatcata atagctagca 600
t 601

<210> 3407
 <211> 171
 <212> DNA
 <213> Glycine max

<400> 3407

agcttgtttc taagcagggg tccattatta gtgattgtag aactaccctt gccacttata 60
 caaacttttc ggtcaagttt attaggtgac gagctaatat agctgcaa at agcttaacta 120
 aaacagttat tgcataatgtt agtcgggcct gttttaatca tatttcacat t 171

<210> 3408
 <211> 700
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3408

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 tatcacacag agtttgatga atttaaagtg gagttggaga ggcgtaatat acacaaacac 120
 ctactaatc tttaggaagg aagcattgat gtggcgattg tcaaagaatt ttatgccaat 180
 ctgtacagcc ctaaggatca gtcacccaag caagcacgag taagaggaca tttgataagt 240
 attgatgcaa acagcctcaa tgattttctt cagacaccag ttgtgctaga ggatggggag 300
 accctacca cctactctag attttgagg ttgaggtcta atcctcaaga gatagaggct 360
 agactgtgta ttccctgcaa gggttttgtt ttgaacgccg aaggccaacc atggaagctc 420
 ctcaaaaagg acttgaccac attggcccag acatggagtg tcttatctta ctccaaccta 480
 gctcccacat cctacacatc agacttaaac acagatagag ctagggtggt ttacaagctc 540
 ntaactcaca tggatatgaa cattggcgcc cttatcttag gtcaaatttc ttctattgct 600
 caantcaact cctgtaggct tgtgattcca gcattgaata ttgctctctg cagagctaga 660
 ggagggtactt atgatagggt gacctacgag agcctgagcc 700

<210> 3409
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 3409

gcaagcttcc aataatcgat gcgaaaggga ccccatatta agctttacta acttctagta 60
atgggggggtc ctcatcggg gccagtaatc tatctaaacg aactactcta ctcaacatac 120
acaaccatat attttgggcc taaacaaatt t 151

<210> 3410
<211> 909
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3410

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atcaaacgca cacacanaca acacaaacac acacnnnnnc cggggtgatg agtgcattggc 120
aanccnttng nataaaaacc aaccatattg acaaggacaa aacagcaagc agaaatttaa 180
ttttattacc accactgcac caaccggaag gggaaaggaa aaacagaaaa cacacagctc 240
acgaagagga caaacgcaga agaaaccata taacagagac aaggacccaa ggtggaaaca 300
caaagactac acacacgaga aggaaccgaa gaggaagata aagagacgac cccaaagcaa 360
gaacacaaaa aaaaccgaca aaagaaaccc acacgaagaa ggaaaccag agacggagggg 420
cgctaaccga acaacgggat cgaatgcgaa cagaagaata aaaaacacaa ggagggccga 480
caagaatgca ggaacccaac gatcaaggga gacgggagag aaagtggcaa accgagggca 540
aaagaacaaa ggaccgaacg accaacggag cggacgggaa cgcaaggggc acacgagaca 600
gaagggacag cgacaagcaa acgcaaagaa caaagaaaaa tcacggcgcg aaaacaggac 660
acgccccaaa caaacacgaa aaggccgaac cccaacggcc atcagatgca ccaacacaaa 720
cacaaaccaa agggcgccgg aaaaacacca cggaacaaaa aaacccaac cggccaaacc 780
caaaccacaa ccaccacagg caccacagga aaaaaacgca cgcagcgagc gagagaaaac 840
cggaaaaccc caccaccaac agcacgacca cacggacaag gagccaggac aagacagaaa 900
cgaaccccc 909

<210> 3411
<211> 527
<212> DNA
<213> Glycine max
<400> 3411

tcatagatta ataaaggttt tgaatgaaaa ataaaatgcc attagctgaa ttaatctatt 60
cattcataga aaacaaaaaa aggtacatga accttacaat tccaccactt gtgtttcttc 120
cccccttcca atcctacatt ggatctcatg acaaccttga gacatcttac atgacattcg 180
caccatgttt cagaatataa tgcttcagct gtattcaaat ttcaaaagca taacttgtgg 240
attacctctt tgtaaacatc aattggaaga ggcaatctaa gatatgcaat ccagtcttta 300
gtaaatttta gcttcatctt tttggcaact ttggctgctg acaataccta tatatgtaaa 360
atgaaaatta agtagacagt aaaaaagaa aaactacaca aacaattaca agagtgttta 420
aatgagaagg gccttcaata tataaattca ttaaattgaa gataagaaaa ctactatgga 480
attggaaggc aagagttcct taataatgaa aaaacaaaaa aggagac 527

<210> 3412
<211> 385
<212> DNA
<213> Glycine max

<400> 3412

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aagttattgg cgtatgaatt ggcttaaagc ataaacattc aactttgagc ctctcggtat 120
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgctcagag 180
gttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagttatt gtcttttgag ttggctcaga ggctcaacat tcaagttcga ggggccccgat 300
atattacgtt aatgaagcgg acatcacgct aaaaagttat tgccgattga attcgctccc 360
aagatcaaca ttacattttc gagcg 385

<210> 3413
<211> 166
<212> DNA
<213> Glycine max

<400> 3413

agcttataag aacaaaattg cctaaatcat ttccaaatat gcatgtgaat taggaagcat 60
caacaagaat caagccaagg ctattgggca agcaatcaat ggggcaaaac acaccaaaag 120
attatgatga tggatggctc aaattctcag aaaggtaaac ttatca 166

<210> 3414
 <211> 536
 <212> DNA
 <213> Glycine max

<400> 3414

tgtttgtag aaagacccaa cacttttacc tatggctgtt atctttaatt acttgcaatt 60
 ttactgtttt taacatagac tttagtttat ttttgtttta accattgatt attaatgttg 120
 ttcctacaat gccttacttc tgaataaaac tctgtctaata aagcaagttc cctgagtttg 180
 atactcggat cactccgttt taatttttaa tacttaacga cctgatgccc tttccgacga 240
 atcgaatttc ccttgaacat atttgttgaa gaaaaattgg acaaaaagta actctagggg 300
 aaatcccaac aaaaaccaat cataaaagat atctatgagg aactcaata taaaatttat 360
 ggtcacacac agtcactaaa gcttatccat gacaccttct ttagtaggcc agacatttgc 420
 ataaaactcc atgactactt taggatcata tttagccatg ggctctgcca tctgctcca 480
 atgcctcctt gcaattttcg cctgaaatta tgtatactca ccctcagcta gctaga 536

<210> 3415
 <211> 651
 <212> DNA
 <213> Glycine max

<400> 3415

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 tagaattctt attagctaata acgtcaaaaa tatagttact tgtattaaga tcaccacact 120
 gggcatacat ttgaattagg gagctttgga caaatgtttc taattcaaag cctgctacaa 180
 ctatatgtgc atggatgggc attccatgat ccaaaaggtc atcaggagac aaaaagcac 240
 tgagaagatt aacaatagta atgtagttta caggcacacc ttcttctctc acaaattga 300
 aggcttcaat cgctgcatta ggttctttgt tatcagcatg tccacctatt agtgcattcc 360
 aagtcatttc atctctgtca ggcataatct tgcacaccct ttgtgcagca gccatggaac 420
 caaatttccc atacatggta accaatgcat tacctatgat caaattgtga tggagaccaa 480
 gaagaatcac aaaggcatga acaatcttta atgtttctaa atatacatgc agataatgca 540
 gtagtgaagg tacatagttt gtcggcttct ttgtttgaag catctcaatc aaaagttcta 600

agcacgtgga taatttccat tgtcacattg cttgccatat ggaattcatg a 651

<210> 3416
 <211> 168
 <212> DNA
 <213> Glycine max

<400> 3416

agctttttaag tgaaggagg cgactcttca cttttgaatt tgaatttcaa cgggtcaaggg 60

cattggtaat cgattaccaa aacattgtaa tgcattacag ctttttgaaa aataattgga 120

acgttgtaaa ttcagtttga aaactttttt caaactcatt ttgctact 168

<210> 3417
 <211> 662
 <212> DNA
 <213> Glycine max

<400> 3417

tcagcttctt aaacagagggc tgaaaatctg aagttacttt gttttatggt attgtaaaac 60

agttacaagc ataataacta aatgcaatac aagaatatga gaattgacga acccagttac 120

ttggaatagg taactgtttt taatatcaac agttacctat ttttatagtc caaaacagtt 180

atcaacagtt acctatttta atcctgcacg gtaaaataac taaatgcaat aacctatttt 240

aatatcaaca gttacctatt taaaatagtt acaagcataa tttgcaataa caggatatga 300

gaacttttag aaactgccaa tacgaggcaa gtgaatagtt tataaacagt ctggaagcat 360

tcaacaatta agcgaataaa atagaaaaga gagcaagcaa cccagttcct taaatccatt 420

tgggtaaaaa cattatctat acttaagcat tacttgctca agaaacaaaa aatatgttaa 480

aacaacaata gtgaagcccc ctctgttgga cagtaaaatg ttatagcaat tgcaggaaat 540

ttcaacaacc ctgtggatct gtgtacagac atcatgggtg attctcttgt atagtgcaga 600

cagaataaca cgttactata aatcatgcaa cattacttat tactaccag aaaaataaaa 660

ta 662

<210> 3418
 <211> 176
 <212> DNA
 <213> Glycine max

<400> 3418
 agctttagg gttaaagtct cacgattgtc acgtgctcat gcaacaattg gtagccgcgg 60
 ctatatgaga catcttgcca aacaaagtca gggtcacgat aactcgctg tgctttttct 120
 tccatgctat atgtagcaaa gtgaattgaa tccagtaatg tttgatgagt tggaaa 176

<210> 3419
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 3419
 gcctaagatc ctcttcatca atggattcct tatctttttt gaagatgaat ggcagcggta 60
 tggagaatga atatagagaa gatactccac ttctatgaga aaatgaattt agaaaaagct 120
 taccaccata ggaggtcttg gataagagcc tgtaggaaga acatgactga acggagaggg 180
 agagaatagc acgaaatttt gtgctctaaa agagctctaa aatctgaagt cttattttca 240
 aatgatcaaa gttggaaaaa atgaacacac cttaccttta tttattagcc tgactgtttc 300
 acacaactgg agggaaattt taattttaat 330

<210> 3420
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 3420
 agcttatcaa cttctgccag tggatacaaa tatttaagta tccacaatca taaaaatc 60
 accaggcaga gcactagcct aatctggttt tcgcagatac caacaactta attcaaagaa 120
 caagcatcta taattggact cgaaccatcc aattacatac atttaaagga tttttaac 178

<210> 3421
 <211> 655
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3421

cgggtgagtc ctgacnacnc tnnttgaac caccggggc tccgacggag aggagggaga 60

attccttttac acnctagcca cagggggggg gctttgaaga taactcccc gaaaaacctg 120
agagatgagg gacaggaggc gaaagtaagc aagtccgcac cgaggacgac aaaccgaagg 180
tccagaggtg agaggggacc atcgtgcatg aaaaacctgc acataagcga tggaaagagg 240
tgggcgacaa atgaaggcat ttacaacaca aaaacacaga aaagaagggc actcgtaaat 300
atgagggaaa aagccactcc gatcaacaaa attgacgatt ggcgggtagt accaccgag 360
cacctacggt tgctcactca ggggagagta gcttcgccat ctcaataagc gcgggatgac 420
ggctcctgcg gaacgaaaac aactaccag ggtgcggaga cccatttgca gccaaagggtg 480
attccctaac ggacgaacgg ggacatgcaa aaggggggaa acaccgaggg caccgatata 540
ctgggtaaca gacgagcttg ggacacaaca aaaaagatcc tctaaagaag tagccgaact 600
cgataaatag gcgacgcgac atcgggatcg gtggtacctg ctaagtattt cagc 655

<210> 3422
<211> 171
<212> DNA
<213> Glycine max

<400> 3422
agcttaatta acatcctatt ctgtgttgca actttttgaa ttggttcgtc tccacctac 60
gccggggtac ttttctagac cattaattcg aaccacaaaa atggttgaac aagttgataa 120
aaaagaaatg gttgaacaat ttacacaaca ttaatatgtt cgttgaaaat t 171

<210> 3423
<211> 631
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3423

tgatccttga ttcttgaatt catccttctt ctggaatctt gaagtgttct tcaacttttc 60
ctcttaagtc ttgaattggt ctgattcctt tcttgaacat ctggaactca tcttttgatt 120
gacttttgag ctttttggtt tcacctttgt catcatcttt tggtatcggt attgttatca 180
tcaaacacc tttgattcac catgaagctt tgcttctaca atctccccct ttttgatgat 240
gacaacttct gaaatcaaga aacacacaca cactttttcc tagtcgatca ctcacataaa 300
ttctccctt ttgtttttga atttatgctt atcttaaaat taagttgatt actcatgtga 360

attcttgatt taatcccatt tctctcccc tttggcatca acaaaaaagc caaagtgcgt 420
atcaaactta aagtatacaa atataactta cacatccata caatattcat ggaaaaatat 480
caaccaaadc atgaagcaag aagcaagaac catgaagcaa ccatcatgaa tagattaatt 540
ataatatcca catagtcaaa taacatactt aatatttgtt caaacatacc atgcaaanta 600
aagaaatagt aaattggtca aatatcataa t 631

<210> 3424
<211> 95
<212> DNA
<213> Glycine max

<400> 3424

agagaaagat tccatggagg aagaatttgc cttagagaca cagagagaga gagagagcac 60
cagagagatg agggagccta ggaattgaag gggat 95

<210> 3425
<211> 429
<212> DNA
<213> Glycine max

<400> 3425

tcatgatgat gaatcaagta tgattcaagt agttttgatg attacataaa gcccaaaaga 60
atgatgtcaa gattgagtca aaaagttcaa gaaatcaaga agattcaaga ttcaagagaa 120
gttgatttca agattcaaga aaagacatca agaagaatca tgattcaaga gaagatgaat 180
tcacaaggga agtattgaaa cggatttttc aataaccaaa catagcatag ttttgtttta 240
caaaaagagt tttctcaaaa ttttctaagt taccagagta tttactctct ggtaattgat 300
tatcagtttc ctgtaatcga ttaccagtga taaagtttga tttcaaaagc ttttaactaa 360
atttgcaacg ttccaaaagt tttttaaatg gtgtaatcga ttacaatata ttgtgtatcg 420
attaccagc 429

<210> 3426
<211> 417
<212> DNA
<213> Glycine max

<400> 3426

ctgagtgcacat ggggaacaca ttactcgagt ccccgctctgt gttgttagcg aaagagctcg 60
acaggcttat cttggacggc atgtgtgctc tatctcacct gaaaaatagc tttcctcaca 120
tcgtcgacac acagtgcgtg agtgactatg ttagtgtcga ccatgttctc gtgaatctgg 180
cgcacttggt actgtgttat gcgtttgtgc gcttaccccc ttgatggata tgttccaact 240
gtaagcgaat cacaactcga tcttatgctg acaacaatac aaaccttgct gacgttgctc 300
tgaactttat gcttgaaggg cctggtgagc gtctttacta tcatgttgag gattgctctt 360
ggccctaatt ccactgctag tagccttatt taaagaattt tatatccttc tctattc 417

<210> 3427
<211> 151
<212> DNA
<213> Glycine max

<400> 3427

tttaatggag gattttatctt agaagaaggg ggagcacgaa attgatggaa tataataggg 60
aaagaagtgg aaatttgaaa agtattttat aagattttca ttcattgaaag ttacaaaaag 120
ggttataaat gcttttattt atagagtagg t 151

<210> 3428
<211> 676
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3428

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gcctcgctgt ettcctgccc atctgtttgc ttaattctgt catgatcaca ctctgctggt 120
gcctttgctg cgcattgttg tgcatttgca aagcaagctc ctgcagcgtc gtcacgtttt 180
caacctgagt ttccaaagct tcaagtcggt caccatcct tgtcatgaac aatctccgcc 240
acagagagcg atttgaaatc cggtaggtcg gaccaattga tgggttatat aacagataac 300
aaaataacac agcaaaagaa tggataatct gtaattatat tgatggaaga aatgacaaat 360
tacagataaa acaaagatag aatgtattga tagtgatagc tatcaacca aagcactaac 420
ggcttccttc acctcaaggt gatctcattt ctctctccca atctcaaatt ctatcgtgat 480

tattctctct tccctccgca cactaaatac taactacttc acgtgctcct catcaccctt 540
 tntgccagct catcatcttt cattccccctt ccatgggtttc tcttgtaaac tctccacacc 600
 tggggcgat aattctcctc acgcccactt catatctttg ttctataagc agcagtttaa 660
 ttgacagaaa ccaaaa 676

<210> 3429
 <211> 870
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3429

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 agtgaagagg agaagaatgg ggcggggagg gggaggggga gagaaatata actgcaaaaa 120
 atatggagag gaaaaagatt ggganagggg aaggggaaat gggagaggtg ggagataaaa 180
 aggagaaaaa gggaaagagg gagttagcta gnnnnnnagg aggggagagg gagggggagg 240
 gnaggaggag ggggaggagg gggagggggg gagaggagag ggnnnnagag nagggagggg 300
 ggagggggga gggaaaggga gggggggggg agagagaggg ggngggagga gggaggggna 360
 gnnagggggg gaagnggggg nagggggggg agggggaggg ggggggnagg gggagggagg 420
 gggggagggg ggnnagaggg gagaagggga gggggagggg gggagggagg agggaagagn 480
 nagggggggg aggggagggg agnnaggggg ggaggggagag gaggggaagga gagaagggag 540
 gaggaggggg agggagggag aggagggggg ggggggaggn aaggggggga gggaggaggg 600
 ggggggaggg ggggggggga gggggggggg ggggtgtggg ggaggggggg gggggggggg 660
 agaaggggga gaggggggag ggggnaggag gggggggagg gggaggnnag ggaggagggg 720
 ggnagnaggg gggggagggg gggggagagg ggnagtagga ggggaggggg gaggggaagg 780
 gagannnaga ggaagaggag aggggggaag nagaggggaag ggggaagggg aggggagggg 840
 agggagagaa ggggaagnag aggagggggg 870

<210> 3430
 <211> 316
 <212> DNA
 <213> Glycine max
 <400> 3430

tttataagca catttcttat ttattgcgtc gagactatgc tgggtgttttt gttctgcgtt 60
 ttacagactg gtttagacat aatcctatac actatTTTTT actgtgacca ttttctgtca 120
 ccccttctct gtcaaacgta attggggcgac tctttgtgga tgatcattct atcctgtccg 180
 ggctcaacat acaaattaga ctgtgacttt atatattgtt aaacgcaaag gtctaaacat 240
 ggctcagtct atatatagcg ttagtgcgac ataatgctcC atcacacgaa acgaatgaac 300
 cctcactttc tctttc 316

<210> 3431
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 3431

agcttttctt ctggttggtc tgctgggggtt tcctatgtta gagagaagga gaagatatta 60
 gagcctcaat ttcaatgtct ctgtgcgagg ggcatatctc tctttacaga tattatTTTg 120
 caaatcccaa cgataggaat gcgccaaaat aagttccaaa agtgttatc 169

<210> 3432
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 3432

tgtagccaaa tggacttacc ttgaattaat tcctttttat ttcttctttg agcctatgtt 60
 cccctttctt tgggtctgaag ctcatatac gctcaagtg aaaaaccatg atatcacctt 120
 acccttaagg aatTTTggag ctttggaatt gttttgggaa taactgtgtg tgtggggggg 180
 ggggacct 188

<210> 3433
 <211> 513
 <212> DNA
 <213> Glycine max

<400> 3433

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 atcatcatgc tttgatacat gccaaaaaaa actagggcaa atgaagaggg tgagaatgag 120

ggagaagccc atgctgtggc tgccattcct atacagccat gtttcccacc aacccaacaa 180
 tgtcattact cagccaataa caaaccttct ccttaccac cgctagtta tccacaaagg 240
 tcatccctaa atcaaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
 agcaciaaac taaaacacca accaagaaat gaattttgca gcaagaaagc cttataattc 360
 accccaattc cagtgtccca tgcttacttg ctcccatatc tacttgataa ttcaatggta 420
 gccataaacc tagccaaagt tcatcaacct ccatttctct gagaatacga ctggaacgca 480
 acttgtgctt tgcacggaga agtactgggg cgt 513

<210> 3434
 <211> 163
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3434

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 attagttccc atgtttcctt atcttttcat gatttgtttc ctt 163

<210> 3435
 <211> 490
 <212> DNA
 <213> Glycine max
 <400> 3435

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 caccatatga aagtttgtag gtagcacttc ctcccatgac acatggacat ttcatgcagc 120
 tgatttgagg gccttggttt cattgcattg gaatcataaa ccaaggctgc aagaaggcca 180
 tagagacatg aacctaaagg aatgttagtg atgaggatat tgtggttcac accaactg 240
 tttgggcca atagctctga ggtaatagac actgctgcag aaaacacaaa gcctgaactc 300
 agccctatca aggcagtgcc tatgtgtaat gcagctccac tgccagatat ggccagcaaa 360
 atgaatgcaa ttggtgtag caccaagcct gctccaaacc atccagctct tgcaatgtgt 420
 atcttcctgc attgtcatc aacattagat gaatttacgt gcaatgttgg tttcgtgaca 480

tgctctccca

490

<210> 3436
<211> 1516
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3436

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ccgcattctc tcgtctcgcg cggaggtgcg gttcgtgttg cgacgtcttg ntganacata 180
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gntgcgcgcg ncgctgcgcg cgcgnnnnct cgggcctgcg ccgcgcgcgg ccnnnnntt 480
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<210> 3437
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3437

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 gtttgaatat gaagganaag aaaatgaatg tgagcctttt tcccctttga aagactttgt 120
 taaaaaaatg tttaaaaata cttttaatta atatttgaat ttttttttat tcttagtata 180
 tatgtgaggg gtagaagggtg tcacaccata tgtatatttc tctttgttta tatgcttttt 240
 tgatcaaaat gaaatggttt tatgtaggag ttttagtggg gtttttttta cgatggagtc 300
 ttagtgtttc ggattaattg aagaggatgg tactattgta acatcttatt tttcataaat 360
 aagttaaaaa ggtttttttag taaaaaaaaa taaagtttta taaaatagtg agatttattc 420
 atttgataag acataaaata gagtcttttt attaaataat aaaaataaat aaatagagta 480
 aataatagtt tatgagtacc ctatctataa atagcatctt aggttcagtt tcagactgac 540
 gatactctct acacctnctc tttctctc 568

<210> 3438
 <211> 408
 <212> DNA
 <213> Glycine max
 <400> 3438

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 aaagttatgg gcgattgttt ttgctgagag cttcaacatt caatttcgag cgtctccatg 120
 tattacggga ctcaatcaga catccgaata aaatgtttgt ctttcgaatt agctctcagt 180
 gtcagaattc aatttttagc gtctcaatag attatgggac tcaattagac atccaagcac 240

aaagttatcg tcgtttgaat ttgctgagag cttcaacatt caatttcgag cggctcgatg 300
tattactgga ctcaatcaga catgcgagta aaaagttatt gtcattcgaa ttaactctca 360
tcttcagaat tcaatttcga gcgtcttaat agattatggg actcaatc 408

<210> 3439
<211> 102
<212> DNA
<213> Glycine max

<400> 3439

atctttaatt aatcattcct agaattgatc ttatcctttg acttaaattg atagatacgg 60
aatcattagg gcattgactt acagcaaaga acatcttatg ac 102

<210> 3440
<211> 365
<212> DNA
<213> Glycine max

<400> 3440

gcataatatt ataataatca cttccaaaaa ttgacaaaca taatttaaaa gaaatataat 60
aataaccata atattaatta acaatcataa tttgtttatc acaatagaaa ttatccaaaa 120
taaacattct atcaatttac ctaagtaaac attgtatcag tgtaccaatc attacaaatt 180
tatccaaatt ataataatta gtcataatct actataaata aaagataaac atatatcata 240
taccaagagt gtccgaccgc caaaattcga agaagtgaac tatgagttaa catatcttta 300
tataatattt agcatattgt tattataaat aattaaaaaa aaactaaata tcatgtcaac 360
aaaat 365

<210> 3441
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3441

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gaagtccgat tcaggcgcgt aatataccga gacgctcgaa attgaacaac ggaagctctc 120
gagaaattca aatgggcata actgatcaca cgaaagtccg attccggcag atagtatacc 180

gagactcttg aaattgaaca acggaagctc tcgagaaatt ctaatgggca taacttttca 240
catggaactc cgattcaggc gcataatata tcgagacttt tgaaatataa caacggaagc 300
tctcgagaaa ttcaaattgt cataaaattt caaacgaaag tccgattcag gtgcataata 360
tatcgagagg ctggaaattg aacaacggaa gctgtcgaga aattcaaattg gtcataactt 420
atcacaccga agtccgattc aggcacataa tatatcga 458

<210> 3442
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3442

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ggtgtttttc caccatggag atgcagcggg aggaaaagga gaagaggaga aaggaggcac 120
catccactag ggaataagcc atggaagaag gagcttcgcc accaagaatg tgccttggat 180
aagaagcttg gagaggatga ttcaatggac gaaaagaggg agagaaagag agagggggag 240
cacaaaattg aagaaggaaa aggggggagag aagttgaact ttgagttgtg ttcacaaga 300
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 360
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 420
gagaagctag agcttagcta cacacacccc tataataact 460

<210> 3443
<211> 456
<212> DNA
<213> Glycine max

<400> 3443

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atcttctcga agcatccatt gtttaatttc aagcttctcg atatattatg cacctgaatc 120
agacttccgt ttgaaaagtt atgaccattt taatttctcg agagcttccg ttgttcaatt 180
tcgagcgtct tggatatatta tgcgcttgaa tcggacttcc gtgtgataag ttacgaccat 240
ttgaatttct cgagagcttt cgttgttcaa ttccgagctt ctgatatac tatctgccgg 300

aatcgaacct ccgtgtgata agttatgacc atttgaattt ctcgagagct ctccgtgggc 360
aatttcgagc atctcggtat attatgcgcc tgaatcagac ttccgtgtga caagttatga 420
caattagaat ttctcgagag cttccgttgt tcaatt 456

<210> 3444
<211> 145
<212> DNA
<213> Glycine max

<400> 3444

ttaatcattc ctacaataga tcttattcctt cgacttaaatt tgatagatac gtaatcatta 60
tggcattgac ttaatgcaaa gaacatctta tgaccttgat aatagacttt agttaatttt 120
gggaattaga aattaatatg gaaag 145

<210> 3445
<211> 211
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3445

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attaataagg ttaattaaat ttttaatccc ttaaattttt tagcctccaa tttttaatct 120
cttaaat ttttataaat ttttaatcttt cattaatttt tttatcactt tacttcttct 180
acattatttt atctattttt aattcctcat t 211

<210> 3446
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3446

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gtagaagcta cacacgatgc ttaaccactc aagacagcag caaaccaata acagtgtctta 120
accaccatat aggtagaagc aacatagctt aaccatcgag agtagaagct aaacatgggtg 180
cttaaccact aagacagaag caaaacaata tttgaatgct taaccaccat anaggcagag 240

gcaacacacc aatgcttaac caaaggcaga aatttgacat caataacttaa ccaccatgga 300
 cagaagcaaa tgactgtttt ttttataaaa aaaaataaac acctaaaacc tcttgatgaa 360
 tggaggggac agcaatagta aacagagaat atatatacag cagaggcaac acaccaatgc 420
 ttaaccatcc atggcagaaa tctgacatca atg 453

<210> 3447
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3447

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 aaagatgggc attgaccaat ccctcttcta tgatttgacc caattgtcta gtgacgggtgt 120
 accatttgaa gttgcactgg atgatgattg gaagtttgat ttttttgtgc atgatgccca 180
 ccggttggtt tgcaccaacc aagcgaatag gaccagaagg ttgcttgccg attcattggc 240
 tcttgaaagc ggtatcctcc attatctaatt tgtccgaatc ttactcccca gatctttaa 300
 ccttgcatgg gtttctgaag aagatctaatt agttatatgg gcctttcata ccggccgaca 360
 aattgattgg gtacatctag tccgatatcg catgcataag gcattgcat taaatgctcc 420
 ttgacctat cctcacttag ttacc 445

<210> 3448
 <211> 153
 <212> DNA
 <213> Glycine max
 <400> 3448

agcttttcag aagggtaaaa ggctcacatt cactttcttc tacatcatat tcaaacttgt 60
 ccaaataaat aataaagtca tctcgactca aagaaagaca tataagtctc atacaactaa 120
 tatagaacct atatgctaatt gtcacatcct atc 153

<210> 3449
 <211> 133
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 3449

agcttttcta aacccatata attttagtag acgcctatgc natattttct tttgtgcaag 60
aacaataccc tctgtgagna tggggcaacc ttccaagcca agaaaaatat tgaagcgcg 120
ctaaatcttt gat 133

<210> 3450

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3450

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ataagagatt tcagatggac tttaatacta atcccacagc cgaccttttc acgagatctc 120
tacttaaccc tttgggttaa tgatcagcca aattatgctg agttctcaca aactccactg 180
atatcacacc atgcatgatt aactcccgaa ccatgttggtg tctaacaccc aagtgtctag 240
acttccatt atacacttga ctatatgcct tagccaaagt taatatgggg gaaccttatt 300
cctttttag gaattcagtt caacaagtaa caggctgtca acatagcctc accccanaat 360
ccttactta naccgaata ggataacatg gaattcacca tttctttcaa ggttttattc 420
ttcctttcag ctacaccatt ctggttt 447

<210> 3451

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3451

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cgcaatcatt tgaattggag gagtggtaat gacttcagat taaatcttct ctctaataaa 120
ataacaatca atggccact aaactgttaa aaccataatg ctaaatcaat caaaccaaac 180
cctacgggat tgtatataga tatgacaaac tagtccaata gactccctt gagcaacaaa 240
tcaagtaagt ttctccatat aaacctcatt gtcaagatca ccaaagagaa aagcattctt 300
ggatcatgaa tatctagntg gagtaacagc catggacaaa aacaagcaaa ctgaagccat 360

tttctccact ggcaaggtgt ccccttaatc taattcaaaa acctatagat tcccttgggc 420
tattacacaa gccttaagac aatcaagtcg accattgg 458

<210> 3452
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3452

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atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120
tttttactcg gatgtctgat tgagtcctgt aatatatcga gacgctcgaa attaaatggt 180
gaagctctaa gcaaattcaa acgacaataa ctttttaact ggatgtgtga ttaagtcccg 240
taatacatcg agacgctcga aattgaatgt tgaagctctc agcatattca aacgacaata 300
actctttact cggatgtctg attagagtcc gtaatacatc gagactctcg aaattgaatg 360
ttgaagctct gaccaaattc aaacgacgat aactttttac tcggatgtct gaatgaagtc 420
cgtaatacat cgaga 435

<210> 3453
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3453

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atgtctcatc cacctctagg acctcacaac cactcacaaa ctcatctcaa gctctcggga 120
cgacttcttc ttcaagctcc attcttttga ggtcttttga caaaaaaatc tctcaaaact 180
ctatggattc agacacttct ctctcttgaa tctctcacat gcagaagctc ctcgagaaaa 240
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tcgagaattg cccaaactcc tctccaaaat ctaatttcag gcttaaataag gtggctntgt 360
ttgtgctagc gcgcttagcg tgactatgga ctgctcagca tgcataaacc aaaagaagaa 420
gacaagcaag aaaccaaaaag atgaaacana agctaaac 458

<210> 3454
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3454

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tcaaggaagc ttctcaaaga agcttctcaa ggaagtttct caagaaagct tctcaaggaa 120
gcttctcaag gaagtttctc aaggaagcta cctaggctat aaatagaagc atgtgtaaca 180
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gctccagatt gaatgtagct acagaacttg tgcaagaagg atcatgagtc gttcaaagaa 300
tacaccaga ggtggaggga cctggaagct caagtagtgc cccaatgac ggagaaggag 360
atgataaaaa tgatagtaca cacattacca gtgttctact atgagaagtt ggtgggttac 420
acgccttcaa gc 432
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<210> 3455
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3455

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gaccattgtt cttccttccc gcgatgcttc ttttcatgtc tgccatgagtg ggcttatagc 120
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tttttcttaa acccatcccg ggctcataac cgttccccaata cataactcgg gccatcatta 240
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cctcataaga ctggaaagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360
aggatgggca gcttaccaag atatcttctt cgcctgacac aatgaccaag tgcccttcta 420
ctacgaattt cagcttttgg tggagcgg 448
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<210> 3456
 <211> 442
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3456

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aacataaatg aacttctccc ttgctatcat tctttttctc tattttttct ctctctctag 120
ctgccttgct atgttatata tctatcttca tatacaaatg atactctctt tttacttcat 180
ggtgaataat taacctacct aggtctacaa tgacggactg acacttccaa gagaagagtt 240
tgaatccaga gaatatcatc tgtggcagcg actaaacttc tatatttagc tgcagggggc 300
acttctatat cagttgtggc tttgtatcta ttgatactgc catcagaatt actaatgac 360
aagcacacca gagaaaagat gttatttcat atacatagac ctaaacattg atctactaac 420
ccgtgtgctt aaggaccata ta 442

<210> 3457

<211> 447

<212> DNA

<213> Glycine max

<400> 3457

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gcagcctgga cccaagaatt tgcgcacttt tgtctatctg atttaagttt tagttcctct 120
tctggatgct ttctttcatt atctggagaa gaatcatctg gaatggattt agatagcgag 180
tcaacaatca tccgcgcact atttatgcta gcatgaagag ttaggaactg ctctactgca 240
ggctgtgggt tttgttctt atcagaatta cttagctctg catatacact gccaaaaaca 300
tcacaaaata agagtcagaa acaatctgtt atgctgtatt gcaggagggt gacacaatat 360
aatgcctacc atcccataga agaattgtgg aagacgtgga tgattaacat aatatatgcg 420
taaaccaccag tctgtctgta tgattga 447

<210> 3458

<211> 381

<212> DNA

<213> Glycine max

<400> 3458

ttgattgtac ttccactttg acaagtggtc aacacaacag accgctccgt attattttgc 60

ccctcttcta gaacaataat tgtgtcaccg tgtcaactat ctaatctata aacctcacat 120
 agtggggaga gctgaaacca ccctatcttt attctatttt aaaaatgata taacaatcta 180
 attcctaacc ctctttcttt tctacacacc acagtgatac ttcccccttac ccccatgcc 240
 caccacctgc gccgagacac cctctacatg cctccatgac acctcttttc catcatttgt 300
 tcacatacac aaacatacat gatccccctc atcttaactt gtcccaagat atactaacca 360
 tttaaaaaac tgcgggaaaa c 381

<210> 3459
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3459

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 tagttgaaaa aatactggtg actgtccctg aaagatttga ggctactatt acagccttgg 120
 agaatactaa ggatctgtca aaacttacct tggcagaact tgtaaagtct ttgcaatccc 180
 aagagcaaag aagaagaatg agggctgatg attctgtgga aggagtattg caagctaaat 240
 tgcaaattaa ccaaggagag aaaagcaagt ggaagaaata caacaagaag aatttcaata 300
 cacaagaagc agcgggtaac actagcaaca aaagtggaga caacaacaaa ggatttcctc 360
 cttgcaagca ctgtggcaga atgggtcatc ctcctttcaa atgttggaga agacccgatg 420
 ttaagt 426

<210> 3460
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 3460

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 gaattgttgg agaaaaattc aaattctaaa ataaacaaag ttggtgaaga ttcaaggaga 120
 ttcttttagg aatttgcgtt tcaaaccttt aggattttat ctagatttaa atatattatt 180
 aatttgtttt aacttattct acatatttgt ttcttgtttt aaagactaca acatgataat 240

attcggattc tgtagcgcta tttagctcta tatagagagc caacagaata attctacagt 300
atatttcac tcagatccct tgaacatgtg gataaatctg ttgtgtgaaa gttttccaac 360
agccttggct tcattagtgc atcactctag ctgctcgctc tttggacaca tttcgagaaa 420
t 421

<210> 3461
<211> 313
<212> DNA
<213> Glycine max

<400> 3461

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taatgccctt caaatctctc ctggttctta caacgagaat gtcttcaagg tatcaatcgt 120
atcttaatta atttactacc aaaatagttg tatgctatta ttgtgtgcac acatgagtag 180
tttttttttt caaaaataat taaatatatt aatttatatc tcaataaaag aatgatatta 240
attactccct ttcttcttat atataagact caattaccta attcattaaa attaagaaaa 300
atggttaatt tag 313

<210> 3462
<211> 165
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3462

atgcaagtca atnttcaaga ggcattctctg agaggatctt tttcgggcat atttgcacia 60
aaactcttga actaggaaaa agatagccat catctttctg ttcttagtga aggcagtttg 120
aaggtcccca ataatagact caaacactgg ggctatgcgg gtggc 165

<210> 3463
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3463

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atcatgaggg agctaacaaa aattttcatg gaggttgacc ttcttcgagt agttttgact 120
 tccagcaccc tcttatccct cttccatttc cacctagagc aattccaaac aaaataatgg 180
 aagaagtgga aaaggagatc ttggagacct ttaggaaagt agagggtgagc atacctctgc 240
 tagatgccat caagcagatt ccaagatatg ccaagtttct aaaggagctt tgcaccaca 300
 aaaggaagct canaggcaat gaaaggatta gcatgggcag aaatgtgtca gcattgatag 360
 gtaaatatgt tcctcacatt cctgagaaat gtaaggaccc aggtactttc tatatacctt 420
 gcattattgg ggaacagtaa attgagaatg tcatg 455

<210> 3464
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3464

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 gcccgagtca ttcaccccta atgatgatgt gtgaagtnat ggcgatcaga attgccattc 120
 cttggattat atgggtgaac caagctcatg cttttacaaa aaggttcatc aagtcaagtt 180
 gaaatatgga aagaaccgtc ttgccaaaat ggggccaaag atgaatcgag acacatcact 240
 gcttcgtcta cttgccaaac atattaggat tattggatgg ctttgtactt tcagttcacc 300
 ttgccaaaaa ggcataacca tggggaaatc taaatgattc aaccatatac ttgacaaaac 360
 ttaactgaca tattcgatac atcatgtttt catggttgca tgtaatggct tcttcttгна 420
 agaaatanat tactattact aatttattaa agtgtttttt cttgttcaaa aa 472

<210> 3465
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3465

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 tgttgccctc gtcctacgt atcctcgggt gcgatgagga aatcagacct acgtagtctt 120
 ttaagtttga aattttgttg gttaaattgt ttttatcttt tttgaaagat tgattttaac 180

cgagcaaaag tcgtttaagg tggtggacct canaatgac ttttgatttt tgaaaagagg 240
agagagtcgt taaggcattg gaccttgaaa tgacatcttg gtttttgaaa ggagagaatt 300
gttaaggcat tggaccttga aacgacctct tgatttttct tgatgaaatg aagaagctta 360
tg 362

<210> 3466
<211> 457
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3466

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tcacacagtt gattccctta ctactcgtgt atgtagatga catagtcatt gttggaaatt 180
ctatggatat gataacttca ttcaagcaga atttagataa tcaatttggg cattcttaag 240
ttctttcttg gtgctggtgt tctcagtgcc aaacctgcaa gcaccccttc tgaacctacc 300
tttgagactt cgccaagatg tcgctcctat acctgacttt cacacgcca gatatatccc 360
atgttgacca acaacttagt caattttcag cctcccaac agtgagtcatt tatcaataag 420
cccaacgcgt actttgngta ttgaaaagg aatccca 457

<210> 3467
<211> 325
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3467

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tggcatactt gcacgatata tcttgaacta ggaagatgat ggccatcatc tttctgttat 120
tagtgaacgc cgtatgaggt ttcccaagaa taccacact gactggtggt atgcaggagg 180
gctgaattat aaacaccaat ttctttatat aaaataacat agcataagca cggagacggt 240
gtacgagtcg aactaatatt tatcgccaa ggacacctac ataaccgccg atcatcatga 300
ttatttgatt gaaaactgaa atata 325

<210> 3468
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3468

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 atctgcaaaa aaacatagac cacagactct ttcaataggt gcagatgcag atttctgatt 120
 catggcaagc tgagttacta ggttgaccaa ggcataaggt tttcccttaa gctttttatt 180
 ttcaacagat gaagatgaat ccgtggccac ctcatggact cctctaagga caatagcatc 240
 atttcttgca ctgagttggt ttggagttgg aagccatctt ctcaatcaaa ttcctagcct 300
 caacaagagt catatcacga agagctccac cactggcagc atcaatcgta ctctctcca 360
 tgttgctaag tccctcatag aaatattgca gaaggagttg ctcaaaaatc tgggtggtgag 420
 gacagcttgc acacaatntc ttgaa 445

<210> 3469
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3469

agctnttgga aggatcgaga agtgccttat gaatcctccc gtgcttatgc caccggtacc 60
 tggaaggcct ctcatcttat acatgacaat cttagacgag tcaatgggggt gtatgctggg 120
 gcaacatgac gaatccgaaa agaaagagcg cgctgtttac tacctaagta agaagttcac 180
 aacctgtgaa atgaactact ccttgctcga aagaacgtgt tgtgcttttag tatgggcatc 240
 ccatcgtcta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300
 ggttaagaac atctttgaaa agccagctct cacgggacga atcgcccagt ggcaagtcct 360
 gctatccgag tttgatatag tctacgtcac ccanaaggcg ataaaaggaa ggccttagc 420
 agaattattg gctcaacagc ctcttaac 448

<210> 3470
 <211> 449
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3470

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caatcatcaa atataaatgt ggattaaata ttaatcgatg tcaataatat gtttagtagg 120
ttatgtaact taatgtgaaa attttcaaaa attttaataa ttgcagcatt agtccaattc 180
aacttaatgt gataaataca ttggtcttca aatttcacct caataaatta tatgacttat 240
gtagaaaaat ctagcaaatg aatctagcaa aatcaaatat ataaatagaa aattacatta 300
gacgatgtta attaattctc cttcatcatg atcattacga ttagcatgaa cgtgattagc 360
ttctttcttct ccgacaacat taggagtgat ttgtatggac agaggactaa cataggtgtc 420
catgtatgaa tcatcatctt ctacattaa 449

<210> 3471

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3471

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actgaagaag gaacaatcaa ctagacctcc tttggataga ggtccaatga tcctaccagc 120
agttggcctg actgtggctt tggctctgcc tactatcgag gctcatcatc acagcgctag 180
catgtcttcc ccttgctatg ataggccttc atgggagggg tcgagaccaa taatatatga 240
tgtttgcttc atgcgaacca tctataaaag atgaaaaaaaa aaagtcatta taataaacia 300
ttatatattag ctaagacatt gaaatacata attgaacatt ctatctgtct aagagtaata 360
aanaaatata caacagaatg atttcgctgt gtgtctcatc ataatgcaca atagaatcac 420
gatttcattg ggtattatct cg 442

<210> 3472

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3472

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ctcgagaaac cttcttcaca ttcatcttta ctttcatcaa tggcggcctc ttctgaacat 120
aatatctcta caaaccaaga cacttatgct aatactgaga gaagcatacc attgccaaca 180
ccaacaatgg ccttgaatta gttcttatta caggctcgtga agaagaatgt aggaaggtgt 240
gggaaacca tgccttgaat gagttctctc tgaacactaa aaacatttgc tttgcaggctc 300
cttaccaccc taaactagat tatgaagtca ttaggagttg gttcccaact tataagaatg 360
aacaccata atccacaagg aaaccattag gagtgacttt ctaaaagaga agagtggaat 420
tntcaaagcc tccctgcta 440

<210> 3473
<211> 350
<212> DNA
<213> Glycine max

<400> 3473

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ctcttttgat cctgtcgaac actacacgca gactctgttt ctttccatta aaaaaccttc 120
ttccttcttt tgtgcttatt aacaaagact ttgctgtgca agataaatga gaatgatcta 180
ttcaagcatg actggaggag cagatcatga gttcaagtgc tgcagatata tcctagaaat 240
ggatactagc attccttgtc ggacttctca ctgagattat agccactctc atcaatcctg 300
cagatgagaa tattgctggg tataagcttc tggctgagct taaatacgtc 350

<210> 3474
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3474

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aacttgtttt tctcactcac actgtccata ggtctaagct tcagtcttct caacacgaac 120
ctctactggg gtttcaactg acttagctgg tttgttctct tcctctgtgg ttgctgggtg 180
tgctactgct gctgattctg tttcagtagt ttccctaagc ctctctgctt cttctttcac 240

ttcttcagtt ttctcctctg atttctcttc tgctggcttc tcttcctctg tctcctttgc 300
caccacctcc tcggtctcaa ctggaacttc ttaggctcc tctggggcta cttctgtagn 360
tgttttctct actggttctg ttgngcctc gatggcttct tcctt 405

<210> 3475
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3475

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aaacagagca aaggcagaaa actctgctca acacatcaac caaaatcaca gctttttctca 120
cttaaagacc acagtaacaa ttccttcgat ccaattcggt aaccgttgga tcgactccaa 180
aattttactg gaagtctata gtgcataagc ctacattgtg gccgttgga tctactagca 240
aatatccaga actcattctg tactactctt tccacagcca accacacaca agcattttct 300
gcaccaagct aaaatcctgg tgcacctaatt ttgacagcaa aattctgcat aagtgcagat 360
ttcgaaaatc acancttccc tcatccaatc ttgctcaaat canatcctac aagtcccaaa 420
tcaggtatca aacat 435

<210> 3476
<211> 114
<212> DNA
<213> Glycine max

<400> 3476

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aaaggctcaa ctctcaagga cacaagctca cattggcctt attattatta gctt 114

<210> 3477
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3477

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gacgcatgaa cgaaatcgcc attcatggng ctccgaaaag gggttgagga tggcgaattg 120
 cactaagcaa tcactatgca aagctccaac cttcctgngt ggaggacgca tgaacggaac 180
 gcaattcatg tggctccgaa aaggggtggg atggagaatt gactaagcat tacttcgatg 240
 gctccaactc gtggtggagg acgcatgacg aaacgcactc atggggtccg aatagattgg 300
 aatgagattg cctaacacat acgcacat 328

<210> 3478
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 3478

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 attatgcgct tgaatcggac ctccgagaga aaagctcaga ccatcatgag cgctcaagag 120
 cttccattaa tcaatttcga gggctctgat atgttatgtt cctaactcag agctccgagg 180
 caaaagttat gtccatatga atatgtcgag agctctcggt gtttaatttc gatcgtcttg 240
 tatatgtgat gctcctgcat cgcacctccg agtgaaaagt tatgaccatt tgaataccta 300
 gagagcgtcc gatcttcaat ttctagcgtc tctatatgtg atgcgcctga atcggacctc 360
 ctaatgagaa gcaatgacca tctgaattta tcaagagctt ccgctgacaa attcgagcgc 420
 ctctatatga gatg 434

<210> 3479
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3479

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 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttcactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattggc cgggtgtcgac aacatccgtt 240
 gaaagagctt tttcagcaat gaagattatc aagtctaaat tgcgcaataa gatcaacgat 300
 gtgtgggttca atgacttgat ggtatgttac accgagcggg agatattcaa gtcacttgat 360

gatattgata ttattcgaac atctaccgca cagaagtctc ggaaaggaca cttgcctcgt 420
aatntatattt aacccgctat tgtaagat 448

<210> 3480
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3480

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ttatatattc ttaatgaaag cgatatcttg gaacgcatgg tgaatggccc atcagcctac 120
ccagaaattt ctaaaaatgc tatgttctac tcaccattca gatttgctat ttattacaaa 180
acatttgaca tatatcaccg atattcatga attctattga cataaaaagc gttccctcta 240
atctctaggc actcacaaca tatagagaca gatagaatag tc 282

<210> 3481
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3481

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gtggatggca cctcctctca cctcttctcc tttgtcttcc gctgcatctc catgttgga 120
aatcaccatt aaaggacctc attgaagctc aagatccagc ctccatagaa gccccacaag 180
caagcttcca tcaagtggta tcggagcaca agagcttcaa gtaggtgctc cttanacctc 240
cattaattnt tttttgcttt accttctctt ccattgttgt ttcttcatta ttatccatgt 300
atctcttcac atgtcttgtg ctanatgttg ttaacatgat tctttataat ttccactgat 360
tgatcttgct atagaagctt gatttcattn tctatggttc aaatttcttg ttcatgttct 420
tgaaccatga g 431

<210> 3482
<211> 392
<212> DNA
<213> Glycine max

<400> 3482

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atcattgaca atgtttcata atgcagaata atttattctt ttgcagcatt gtgatttttc 120

aatcacactt ggatttggat aggttccaat taaggcaaaa attatgatat ttgcttgatc 180

aactaaaatg ttctttgtac atatttttct gtgtatataa tattaattta tgtatatcta 240

atttttaata tttctgttat ttattgtgat tgtatttttt tatttatcat gtgatgtctt 300

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ctgtgatgct atacttgtga ccttgctacg aa 392

<210> 3483

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3483

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ggtgattttc caccatggag atgtagcgga agacaaagga gaagaggtga gaggaggcgc 120

catccactag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180

agaagcttgg aaggatgctt caatggagga aaagaaaggg gagagaaaga gagatggggg 240

agctcgaaat tgaaggaaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag 300

actctcattc atcanagtta caacaagtgt tacacatgtt tctatttata gactaggtgg 360

cttccttgag aagcttcttt gagaaaactt ccttgagaag ctagagctta gctacacaca 420

cccctctaata aactgagctc ac 442

<210> 3484

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3484

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gtagggttgg cagaaaatct agaagattga gaagccaagt gctgaagagc ctgaacaaat 180
gcagtttgtc caaatTTggc acaatattgc cagtaaatat gacataatcc catcctctag 240
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acagagtctg gtaaacadat cccgtcccct gcatgatgca acattttaag taatatattt 360
aaaagggtgc gttgttggat tcttcacgtt cacactatta accataaaca ctattntagt 420
tatatacttt tgtagagtat cat 443

<210> 3485
<211> 454
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3485

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tggaggaatc ttttggaggg cccaagtgga cctggttgct atttacaccc ccctttttac 120
taaatgcacc cccttatata tttttctgta attctttttc cgtaacgtta cgaaacttta 180
cgaatttcgt aacgatactt attttccttt cgcgaagggt acgaatcctt acggattgat 240
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ctcttttcga tttccgccac attacggaat ttcacggatt acgcaagcct gctttcttta 360
ggatttctga gacgtctcgg gacttcattt attgcatgtc atcaatttat aatcctcgga 420
cgaaattaag ggatgacagt ngcccccttc tact 454

<210> 3486
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3486

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ctaaaaaata ttcatgggga ttattattct ataaattaat aagactgtgt ttggcaatga 180
catgacttga tttattcaat ttatgattta taaaatcnaa caggaaaatg gagcaatgaa 240

ttacttatcc agaatgttga agcacctcaa gtacaatgtt gatgcccaga tttaacacta 300
atgtttaatc ttgatattta agtgtaatgg gaaaatcacc catttttact gaattatgtt 360
tagtttctcat attacaatga ttattgcttt tctgctaact attactaatt tctaattgat 420
catatgatgc tccatcccat gtacttacag tctcat 456

<210> 3487
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3487

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tttattttacc aaaaaaaaaa agcatcctca ctttaatttga taatcgagtt attgtattgt 120
atcatttttgc cgaggagaaa atcagatagg acgggccttt ttaggtccaa ataggatatt 180
tttaaggata gataattttg atattatctt tttaaacata agttntatatt tatatatattt 240
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gcatgctgta caagaaatta tcaaaatgaa gaaatcataa ttntatcttg gttatctttt 360
tatagnnttt tttctagtct tttgtggcgt tttcttagga atagaattaa gtagtgtagc 420
tcaaggttgg gcgtttccta aaaaacacca taaaat 456

<210> 3488
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3488

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gccaactaac taactatttc tgttaaagct gtttatactg ctaagagccc cctcaagct 120
gggaatggat attcatcatt ccagcttgt taciaaagggtg ctgaaagggtg gctggtcgta 180
aagcttttggg gaatatgtcc acaagttgca ttganggatg agaccggaag gagcttgacg 240
agaccgcgag tgacttttggt ggggataata tgacaatcga tctcgatatg cttggtgcgt 300
tcatggaaaa cggtatttgt tgctatctga attgcagatt ggttatcaca atataaagtg 360

gctggctgaa taaatgctac accaatgtct tggagaatat acgttaacca ttgcagctca 420
caggcagtag atgcgagagc tcgataactca gcttc 455

<210> 3489
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3489

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cataaaatca caatatctat aaaccaatat ggtcagtcta gtttgcataa ggtcattgaa 120
gcaaacacta ttaccattgt tgcgcatggt ctaaaaaaca aaaactaagc atataatgag 180
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ttattgatac atgttaatta attaataata aaattgtata aatattattt taattcttga 420
aagtacattn ttagtattta ttaatttcag taattaaat 459

<210> 3490
<211> 403
<212> DNA
<213> Glycine max

<400> 3490

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aaagaagaat gaaagctatg ccaagcaagc caaaagaaa aggaaggaag tggacttga 180
acccggtgat gatcttggac atttgaggac aaatggtttc caagaaggag ggaatgatga 240
gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaaggac gaacgcccaa 300
gtggagaagg acaaagcccc cgagtggaga aggatgaacg cccaagtgga gaaggatgaa 360
cgccacagc cagagacact atcaagacta ttaattgatg ctg 403

<210> 3491

<211> 414
 <212> DNA
 <213> Glycine max

<400> 3491

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gaccaagctt ctgttcctgg cctgtttatt ttcttactg aaataatttg tgttctgtgc 180
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gaaaacagga aaaaccgagt ccatggatcc aaattcaaga attatgggtc ctgaagatag 300
gcatggactc catgcaattg atattttgga ccctgacttg gtatgcttgt tttaaagttt 360
gttgaagtgc aatgcagata tccaagcaag ttattcatga atcctatata attc 414
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<210> 3492
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 3492

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tgtccctttg cttgattgga cgctcactac acgccttaag tgataaacca gtcgatatca 120
ccatatcctt aaagaatttt ggagctttgc aattgatttg ggaataagcg cggagggtta 180
taattcctat tgacataaaa gtgttccctc taatctctag tcatcacaaa catagagaga 240
cagaaagaat agtcgaggga gtgaaatcct gtttttctct tatttcaagg aatcatagta 300
cacaagagag aaacctcatt atggagaaag gtacgcattg tctatctatt atttgtgaga 360
atcatatatt tcaagaattt attgggtttc ta 392
```

<210> 3493
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3493

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agcttaaaca aatccaaaag agaaagaagc tacataacat aactaattgt acctgtagga 60
attataagat tgttttgaga gtgaaagatc gtaacaacta aacttgatta aaaaaaaaaa 120
```

aaaaactaat tgtacctgta ttggagacat atccctttgc atataatcaa gaggggtcca 180
 agaggcaagc ttttcacaag ttttagaacc canaatacag cctctaatag tgttccaata 240
 gcgaggatcc tgaattctct tcctcaacca tggtagagtaa tcttgaagac gatactcctt 300
 gttaaaccctt ccaggcactt ccacaccacc gcccttgcta gtcacaccaa aaccaaatat 360
 tgtgaagccc atgagtgctg ctatgaggaa caacatgacc accaagtaca accatagtgc 420
 acatgccaca tgaaaacatg 440

<210> 3494
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3494

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 aagctcacc ctatgacaaa aaacatgaaa atacaaaaaa aaattcctta ctacaaagac 180
 tactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg accaaaatac 240
 aaggcccaaa cgaaggaaaa acctattcta atatttacia agataagcgg gcttatactt 300
 agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct tcccttgat 360
 ctctagccca atctacttgg agtattctac ccaatgcctt tgcgngtag gattgcatca 420
 cagcagagtt tgaccttca 439

<210> 3495
 <211> 436
 <212> DNA
 <213> Glycine max

 <400> 3495

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 ctaagctcac caccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcacc tcatgaccaa atacatgaaa atacaaaaaa gtcctacta caaagactac 180
 tcaaatgcc tcaaatata aggctaaaac cctatactac tagaatgacc aaaatacaag 240

gccccaaacga aggaaaaaca tattctaata ttacaaaga taagcgggct catacttagc 300
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360
tggcccaatc tacttgaggt cttctatcca atgcccttgt gggttaggat tgcattcattc 420
cctccacctt ggaaag 436

<210> 3496
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3496

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tgtgatgatg tttgtgatgt ttatatgctg agatttctta tggaaaactg ttagagggtga 120
agggtagagt taacttaggg ttagaaagtg agaattgtgat gttatgagtg gaaaaagagt 180
gaggctttga gagttggaag gttaagtctg aattttgtgg taaatggagg ttaaagtga 240
ttaatcctag cttgaaatgt catttaggac ttatgagaaa ggttaggctg tgctagagag 300
aaaaacaaat gaccaaagtg aacaaagagc catttctagg acaaatttgg gtgttgaaga 360
gtcaaaacttt gattcgggtga gattntaggt gttaaaccag ttogaacaag tct 413

<210> 3497
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3497

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atgggttaat tgccagtgga ggtagctggt aaaggcaagg gcaaagtgag gtccctccttg 120
gtggaataat gaaacagttt gagcaaggaa caatagaata caagggtgaat acatgcacca 180
tcaggcagtt tgagcttata agcagccttt gccaatgtgt tccaagattt ggtagggccc 240
ataatatctt ttagcaagct tcgagtaaac tactaaagtt canaagatag tggattgtcg 300
atgagggtcat agttcaccat gaccagctcc ccttcgtgaa aattaacatc ccttcgttta 360
gtgtttgcaa tttgtttcat aagggttgt gttttcaaaa gcttctttct tatttaagtg 420

aaaactgcct ctctgttcgt tagaagttca 450

<210> 3498
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3498

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 caagtctata acattaatct aaacttgctc aaactggttt tacgcctaaa attccaccga 180
 atcaaaattt gactcctcaa cacccaattt taccctagaa atggctcttg ttttcacttt 240
 ggtcactcat attcctcatt tgcacagtct aagctttctc ttaagtccta aatgacattt 300
 caaactagga ttaactcact ttaacccccca attaccactg aattcagatt tagccttcca 360
 actctcaaag cctcactctt tttccactaa taacaccaca ttctcacttt ctaaccctag 420
 gttaactcta cccttcatct ctagcagttt 450

<210> 3499
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3499

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 gtgggccatc gttgaccaat acaaggagaa tctaagtcta gcggcaaccc atgaacaaag 120
 gctagcagat gagtatgcaa aggtatcggc cctacaagaa gaaaggggaag ccagagaaag 180
 agtgatcgat tcattacaca gagaagcaat gatgtggatg gatagggttcg ctttcacctt 240
 gaatgggatt taagagcttc caagactgct agccaaagct aaggcgtagc aaacgtgtac 300
 tcggccccca aggaagttca tgggctcctc gattattgtc aacacatgat caatttgatg 360
 gccacataa ttaggagcca ataaggcggc catattttcg gntaattttg acaagataaa 420
 cattnttggt ccttaatgaa aaataagttt gtttcag 457

<210> 3500

<211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3500

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 caagaagagt taggtctagc cgcggccac gagcatagga ttgcggacga atatgcccac 120
 gtatacgcg aaaaagaggc tagaggaagg gtgattgact ctttacacca agaggcaacc 180
 atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
 gccaaaggcca aggcgatggc agacacctac tccgccccg aagagattca tgggcttctc 300
 ggctattgtc agcatatgat agacttaatg gccacgtaa ttagaaatcg ttaggaaact 360
 tgtatggctc ctcagacctt gactagatac gacttccttt ntgaaataaa atgagttggt 420
 cccatgtttc tactccaaaa agctt 445

<210> 3501
 <211> 472
 <212> DNA
 <213> Glycine max

<400> 3501

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 atgtgtcatc caccggttat atctagcata tcaccttgca aagcttcttc cacaagctct 120
 tcttccactt cttcttcaact gatttcagat tcaactggtga tctctccatc tgccttcacg 180
 atcatggtcc tccagggttg acagtcagaa gcaatatgta ctctgcctaa gcattcgaag 240
 catattatgt ttctggtgtc cgtggttgat gatgagacaa aattatgctt ggtttcatta 300
 acttacattg cattaaatct cattacaaaa ggcaaaataa atacataaat ttgacaactt 360
 gatcttatcc tgtaatgata tcaatataac acacatgtta taaattacca caaatctaac 420
 agataagata aaataagaga tatacacatg atcttacata tctaggagag at 472

<210> 3502
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3502

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ggaacccact aaacgaagga aatagaattc aatagctgaa gctctgtcac aagaaattgt 120
gtcgaaaatg acatagccta agctttttctc aacaacatca gaagaaaaaa aaataacatt 180
atactaaact tagtaagaac acacaaaatg gatcaattac aaagtgaaaa tgacattata 240
ctagatctaa acaaagtact tcccagataa agcataattt gatgccatga gtcagtcata 300
cagttatfff agcaaattat ttttatgata aaactaactc actatgttgg agacaagctg 360
acaaaaatac ataatagtgg aaacagaaat gaatagactc tattatctta cattagattg 420
tggcacanat ggagcagcta gta 443

<210> 3503

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3503

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tagagtctag caaccttgca agcttgcaag atctctgttt attatactta attttcctct 120
ttgttttggg ttattggtat actacttgct tagctcttca atcatgaaca tggttgatct 180
agtcttctcc agatttttct ttttttcatg tagtatatta aggtggggtt actttttttt 240
ttgttagaat aggtgagtag gctaagtaag gaagacggcg ggagatagtg ggtaaccaat 300
actttacagc attgtggtgt gtgggggggtg ggtcatgaaa ggcgtatatg tgtaattttt 360
tttccctttc caatcctttt aattaatgat atgagggatg gaggttaatg caagtcatca 420
ttgtcttggc attttttagt 439

<210> 3504

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3504

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ttattatgat ttttgatcgg atgattataa aactttttct attgatgata tatagaaatt 120
agattctatg ttataacatt taaaatataa aactacatta tgaaaaatgc aatggtaagt 180
aaattaaata ctttttcttg agagattcat aactaataac gcgaagttga aatagacata 240
acgtttttaag ttgaaattct attaatctac aattagtatt gtttgattga gtagaaagaa 300
aagtaaaaaa agattaataa aattaaatta aaatagaatg taaaaatata aattctgcat 360
tattttactg gttattatct tttttattct ctttttcttc aaacgaaacc ttagtattct 420
tataattgaa tgagtttttt atgtcca 447

<210> 3505
<211> 395
<212> DNA
<213> Glycine max

<400> 3505

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tggtacctgg agatatgtcg cggcgggtcaa gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgagaa 180
cctgtgatgt acctaagcag gcgagcttct ggcagtcatc agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaaa cttgattgat atgtgagata 300
tggtctctgg taatcgatta ccaacgcggg gtaatcgatt acaaggctta taaatgaaga 360
caggaggcta agatggtctc tggtaatcga ttacc 395

<210> 3506
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3506

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atttaacctt ttagatgacc ttcaatggag agattccac atggagaggg gaggcgccat 120
tcaatacggga atatgcctgg gtagatagag cttcatcacc tataatgggt ctttggtaat 180
gaaccttaag aagacgcttt accggaagaa cagaacggaa tagaggggtg tacgagattc 240
aaggacattc atagggagag aagtgaacca ttgatgagcg catcatacga cttctatcta 300

tgaaaattac atccagtgtt acacatgcta atatttatct actcgttgct ctcttgacta 360
actttcttga gaaaactctc ctgtgatacg tcactctaaaa aactcccttg ctaaactata 420
gcttacatac acacacgcct ctaataactg aacctacctg cgtgagaagc tcacttgtag 480
agatctctn 489

<210> 3507
<211> 419
<212> DNA
<213> Glycine max

<400> 3507

agcttataat atattgatac gctcgaaatt aaacgtcggg aactctcgag aaattcaaatt 60
ggtcataact ttccacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120
ttgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgtccga 180
ttcaggagca tcacatatag agacgctcga aattttaaatt ggcataattt ttccacacgga 240
tgatcgattc aagcttataa tatattgata cactcgagat tatacatcgg aaactctcga 300
gaaattcaaa tgggcataac ttttcacacg gatgatcgat tcgagcgcat aatatgtcga 360
gaggctcgaa atcgaataac gtgagctctc gagaaattca aatggcgata catttatac 419

<210> 3508
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3508

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cgtcgaagaa cggttcaaac ctttgcgaga ttcttcacgg aaaacggttac ggaaacgttt 120
cggaagcgcc tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaagg 180
agagagaagt gcctaagggg ctgggacctt ttccacttc acttctctcc ctatttatag 240
caaaataggg gagatgcttg ccgccagct cgccaggcg agctcagctc gccaggcgga 300
gcagggttgc ttctccaga agcaaccgcc ttctggagga atcttctgga gggcccaagt 360
gggcctgggt gctatttgca ccccattnt tactaagtac anccccctct gctgtttttt 420

tggtgattcc tt

432

<210> 3509
<211> 177
<212> DNA
<213> Glycine max

<400> 3509

ccactatgac cctgaagacc ctccacttgc tcggatgact tgtacaacta gaggatcatc 60

ttgatgcggt gtatgcatcc ttcattgcc aaccacctt tgagttgtca atgactata 120

gggtttgggt attgttagga gggagagatc tttatgggga aaaattttta aaactta 177

<210> 3510
<211> 456
<212> DNA
<213> Glycine max

<400> 3510

agcttaagat ctatatatat attagtatgt cacagatcat aataatgaat cgtaatacct 60

atgtttctac ttgaaaaata tgagataaaa tcttataatt aagtgcatag tataatatca 120

gatgaacaca atttggaaaa aattgaaaat aaaggggaaa tgcttgaaac aaattgaaag 180

gaaaaataca caaatcatg aaagtaatta tgagtttgaa tttattaaaa tttgcagagt 240

ttcaagtcac aagataagtt acatgcatat taaaaatttg atttttatca ccaaggttta 300

agtgacttaa atgcaaagtg aaagattgta ttttattaga tgaaccttag ttgaatagat 360

gcattgaaac tttttttgtt tcaactttca agagaactta tttattatag ttggtgacaa 420

tcttcacgat aaatagagag tgtctgagaa gagaga 456

<210> 3511
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3511

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atctatatct tatagggtgtt aggttgaatg tgtatcctct taagttgcat attttctgtc 120

atcacatgat aaattaatct ttttctcaat caatatgttc ataaatctca ttctcaatca 180

atatgtacta tcggaacttt cgtctaacaa aatgatacat acatattgga agactgattg 240
 tttttctctt tntaaagggt agtcttggtta tagatctgta agcaatgctt gtactagtga 300
 gaattaaagc aataacagaa gcagaaatac aaaagaaggt agaaaaggga gattaggaga 360
 gtaattccta taatctatth tggcaatgat tatgtgacag gagaggtgct gccaatgag 420
 ctagttatgg agaggaga 438

<210> 3512
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3512

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 tattatgcgc cttaatcgga cctccgagtg aaaagttatg accatttgaa taactcaaga 120
 gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcctgaatct gacctccgtg 180
 tgaaaagtta tgaccatttg aattttcttca gagccttccg ttgttcaatt tcgagcgtct 240
 cgatatctta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaataact 300
 caagagcttc cattgttcaa ttacgagcgt ctcaataaat tatgtgcctg gatcgacctc 360
 cgagtgaaag gttatgacca tttgaattgc tcaagagctt ccattgggtca atttcgagcg 420
 tctcgatata ttatgcgcct gaaccggacc tccga 455

<210> 3513
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3513

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 ggtgattttc caccatggag aggggaggca ccattccacta ggggaataagc catggaagaa 120
 ggagcttcac caccaagaat gtgtcttgga taagaagctt taagaggatg ctttaatgga 180
 ggaaaagaag gaaataggga ggagaacgaa attcanggae taaaagaggg agagaagtga 240
 aactttgaag tgtgtctcat aagactttca ttcatgaaag ttacaacaag tggtacacat 300

gcttctatatt atagactagg tagcttcctt gagaagctnt cttgagaaac acttcttgag 360
aagcttctttt gagaaaactt ccttgagaaa ctagagctta cctacacaca cccctctaata 420
aactaagctc ac 432

<210> 3514
<211> 446
<212> DNA
<213> Glycine max

<400> 3514

agcttctata gaaggttcgt tcctaatttc tctacaattg catcacctct caatgagctg 60
gtgaagaaga atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactaaggc acctgttcta gctcttcctg actttttctaa aacttttgag 180
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgtacaaggt gggcacccta 240
ttgcttattt tagtgaaaaa cttcatagtg ccaccctcaa ctaccccacc tatgataaag 300
agctttatgc cttaataaga gccctccaaa cttgggaaca ttaccttggt tccaaggaat 360
ttgtcattca tagtgatcat caatcactta agtacattag agggcaaagc aagttaaaca 420
agaggcatgc aaaatgggta gagtac 446

<210> 3515
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3515

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tccgctaagc gcaacactca tgggctaagc acgaggaaga ctctggaaga agatgagttg 120
tacagggtttg ctaagcgcac agcttcatcc cactaagcgc actgcttcag ttcactact 180
aagcaagaaa ggcacgcact aagccaaaat tcaataatgt gcgctaagcg gtccataagt 240
gcgctaagcg cacgagcagc aacaaggcca cctatttaag cctgaaatca gatttttagaa 300
ggattttgga ctgggattca aagctttgca tgtctaaggt ttctagagag agaaaggtct 360
aagttccaga gagttttgag agattntact gtgggaagat ctgtagagac cagagcttga 420

agcaggagcc cggttgagag cttgaga

447

<210> 3516
<211> 449
<212> DNA
<213> Glycine max

<400> 3516

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ataatttgat ttgctttccc agttgaatat attgcctatc aaggatcaac tctcctgaaa 120
gccatcattg gagtgcataat taaaatttaa atgaggacaa tgcgcaggct tattgtgcct 180
cattttaaaa ttcaaattta attagtagaa tctagctgac aagaataaag ctcttgagtc 240
ttgaccgctt agtgatgcag atgttttaaat attatgtcca agacctacac ttaaaagtta 300
agctgaagggt tcaagattag tcttatatct tctattatta ccaatgtctt ttgtagttgt 360
tgttgtcatt tagagtaagt agtgaagcaa cctaattgag tagcaagtta ggaaaattgt 420
ttttgatcca aagattaaag ttagctcac 449

<210> 3517
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3517

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taaagtgcatt gtctacttgt agttccaaag tgtcaaacct ttcaccaaca aaggtttgaa 120
gaccatcaaa cctgtccaaa atctttgaaa gaagagatga atcttcttca tcatgtcctt 180
cttcaccaac atgtcgagca cccttcttta cccaagagcc atcatgttct ttttgataac 240
caaaggatgc tatgactgaa gcgcctataa agaaggatct cttgattgaa acataggggt 300
caaaatcaag agggatgttg aagtgttgaa ggaaaagggt aacaagatga ggataaggca 360
atggagcatt caatcgcaat gccttatgca tgcgatatct aacaagatgt gcccaatnca 420
at ttgaaacc tttatg 436

<210> 3518
<211> 446

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3518

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agcttattat ggtagatgt agagaatgaa actagtagac atttttcaaa tttcaaattt 60
tcatttggtta taaaaagaaa aaataaaaga gaaaaataaa tttaaaaatt aaaaagtatt 120
ttttttcctt ttttctaatt taaatttaac tttcttcttt ttcttcatcc caataaattg 180
tgaatgatta gttctttggt ctaaaaattc aaagtcagga atttatgtat ttatttagaa 240
gcgggaaagg aataaaaaaa aggtgccagc tatttccaac aataaacgtg gcccgcatgg 300
atgagataat tcgaaaacga aatagacggc cacgatcttc ctaaatcaca tttgcggttc 360
atttgccaca acttgccctt nttaaacc aaactgcgggca cctcaggcct cagccacaca 420
aagccacgtt cgtaaaaaat agaaag 446
```

<210> 3519
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3519

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gtgcgctgcg gttcatactc gganagagga ggttggtgtca ggatccacta gcaccgcatt 60
ggtagccgcg tatattttct attaaagcat tcttgtagac gcttatgaac actattctat 120
ataccatag tggcgagatt tctaataac tgatagaact ggacggacat tccatttgag 180
gtcatctaag cttctctgta cggtaaaata tcctcaggaa taccacttct catgtcctat 240
actgtccttg gaatgatgat aagcttatat tgtgcttggg gttaggagac aaaagctgtc 300
tattattata caaccaactt ggtatagcag tcgcttcctt cttccctggt tttctgattg 360
gcgtgctact ttagacaatt ttgaaaatg 389
```

<210> 3520
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3520

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aacaattgct tgaccacaac agcgctggag gcgacaaggg acaatgggtct ttcaaataaa 120
cctgttgtac atgaacaaac aatatatcat acgctgaccg tgccaaacga accagcgaag 180
tcattgcata attgttatac taactataat tcatgaacct gaacaaaatg atttccaaac 240
acatgaccga cacatatgat gcggtggcca gaagaatcag gtggtggttg acttctaaga 300
gggaaaaatg tcatgctntg ttgtcgggac aacgatacaa ggattacgtt ataccgtgaa 360
gcaatcacat atcccatgtc cgttatatcc atccacttgt ccacattaac ctgaatgaac 420
canacatata catgtangta att 443

<210> 3521
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3521

agctntgtcc gcannaaatc acttaaaacc attttaaggt ccaacgcctt aaacgatcct 60
cttcgctttt atcggttaac atggaccgtt caaaagcata aaatcaacat gtatctttag 120
cgcttttgcg agaactacgt aggtctaatt tcctcttcga tgtaggatac gtaggagcaa 180
aagccccgct tttgtcgacc tcgggagatg gttagaagtc caacgcctta gctttctcac 240
caagtaaaat gaatcatntt aagggtctaac gccttatatg acccccttcc aagtaaaaag 300
aatcacttga ttcgccccctt ttgaaagaac tacgtagggtc tgatttcctt atcacaattg 360
aggaatacgt aggagcatgg gaaaaaccct tgtcaccaca aaaagataaa aaataaaaaa 420
ggcataaaaa gacttataaa aacgta 446

<210> 3522
<211> 459
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3522

agctntgagc canaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120

aaaatttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccaatca aagagtggga 180
 gaaagcacia agaaaagaaa ggaaaattcc caatcaaaga atgggagaaa gtaaaaaagg 240
 aagaagaaga aggaaagaaa gctcctgac aaggatcgaa agaaaacaga agaaatgtgc 300
 agagaggtct ttggaccgga caatatctga acaatacaga attgccacca aatgaacgaa 360
 aaaagaagga aagggaacca cgacctanaa tagtcttctc cctttgatta ccaacaaaaa 420
 tcccgtagcg tagcgacctt ttttttctcg ccccgact 459

<210> 3523
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3523

agcttattgc tntcctgcga ccaaattgca aaatatctaa aacgaataag gacggagggg 60
 aaaaaaacia aagtacttca actttcaact tatgtgttca aaaggtgaaa gaggaagtga 120
 aggtacaaaa ccaaaccacc aaaccaatgg aagatggcag agtacttcac cacaccaaac 180
 tctaccaata attaatgtta caaattccgg gaatttgaac atataacgat tcgtcacctg 240
 taggaaatta tagccccatt toccatactc acagcatata tatatatatg ccacaagatc 300
 atgggtatatt gtactttcag agcaccatag atgggtggca ttggcaagtt gagagaaata 360
 tatatatata tagacattta acattttattc attctgataa ataaaagcaa gctggattnt 420
 ttattgatgc aataaataaa gaaaatatta caagaata 458

<210> 3524
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3524

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 aaatgcgtac tggtagagca caggtggatg agtactggga ggccatttta aaacatctcc 120
 acatttataa ggccaaggca ttctccatca tattatatttc cagtattctt atatgcctat 180
 gaacaatggg ttctttgact gtattactaa atcgggtcca catgcaggct ttgtttaaag 240

gaaattcatg ctatattgct acgtaagcat ttgcaatctc ttgagagacc attggaggat 300
gaagataaat tagagaatgc tcatgttatg gtacctgagg aggaagatac tgaggatgat 360
attaaaggta tgtataagct ttttgttatc atggacattt agttgttcat gacacaattt 420
ttattggctc tatttctc 438

<210> 3525
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3525

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gaaaccaacc aaacacagag ggcgggcaag caacagatga tccgtgcgct actcttttcg 120
taccttcggt caaatgtgtc aaatagatct gccaaagacag ctaccaccgg actttccttg 180
ctatggtggt atgcaaggaa agcgtcgatt gctgctaggt ccaccaaacc atccacgttt 240
ggaaagagga cgaccccaaa aattagcaaa gctaacacat ccataaacga gacctaattc 300
ccttgattgg ccatacccct cgccttgtct tctaggtacc cccgtggtag gcccgctatg 360
ccattccgag tctgttttat gcgggtccana cctcttgctg aatccttgac cacagttgca 420
attctgctca nagaggggag acacc 445

<210> 3526
<211> 443
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3526

agctntcata agtaaaatca ggtgtagcca tctccctaag agtcctctca tgaggaggag 60
gttgagccat gttctcagta tgaaaattag tagtcgaatg ctcaaaatca gaatattcaa 120
aatcactagc aacagaatac tcagaatgct caaaatgctc acaatgctcg aaatgcacag 180
aatgatcagg atgcacacta tgcctaacta atctatgaaa gggtctatct attntangat 240
caaaggattg taaatcacct ggattgcccc tagtcatgca ctatgtgcag caaataatgt 300
gttctcaaac aagcaccaag ggagggttaa aactacaact atagttaaac gatatccaaa 360

tgagctgaaa ttntgtgagc aacaccctan aatcatgaag atagcacaca aattttcaga 420
caaaaattca aagtctaact atg 443

<210> 3527
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3527

ttaagtcacc tgcggcatgc aagcttgaac canaaccggt gagagtgtga acttatactg 60
tgagtgaacg actagttgtg agtaataatc tttgcatcaa tctctgaatt ttagaatgaa 120
atgtataaat gaggacatga ttgtacatgc acaagccttt tgaccaaaaa gcttaccttg 180
aatgataatt atatcctttg cacccttttt gagctgaatg atattgtcaa aaatttgaac 240
cctgaactta attaattatc tctagatacc ttgttttagat tctcagagag catacggttc 300
aaggcaaatt tacctcaaatt ttgggggaggt ggaactaatt gcggtgcaaa gaaagagata 360
aaacatcagt acacacaaca cataagatgt gtgttaaaaa aagaagaaga gaaaagtgtg 420
ctaattgtaac aaggtcaaaa gaaaatgaaa gtga 454

<210> 3528
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3528

agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccctctcata 60
actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120
ctacagatac ctctctaata gctaagctca cctccttgag atgagaagtt agagcttagc 180
tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgaa aataacaaaa 240
aaagtcctta ttataaagac aactcanaat gccccgaaat acaaggctaa aaccctatac 300
tactagaatg gccaaaatac aaggcctaga cgaaggaaaa acctattcta atatttacia 360
agataagcgg gctcatactt agcccatggg ctcgaaatct accctaaggc tcatgagaac 420
cctagggcct ttccttgat ctctagccca at 452

<210> 3529
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3529

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ggctgcagct tttcctgcta acagggagct ctgatttcta gggtgattga ctattgcatc   60
ttcattttcc ttaaaggcat ctccctcgttg tagtacaacc tatagccttt gtttttagca  120
gcatcccaca cagggagaca tggacacacc ttgtcaacaa ctatcttgac attagtggcc  180
cttgagatgt gcagacaagg agggtaagga gtacgctgat ctcttgcata catctgagca  240
tgaaggttgc caagagataa gcatttttct tgggttagat tatgatcagc tggatgcact  300
ggcaatagtt ntgtgatagg catccacaaa tgcaccttct tttgaaattc actctttgga  360
ggttcaactt cttgcgaggg atcccatctg tgcttctcan acaaatccct agggatatga  420
ttttat                                         426
  
```

<210> 3530
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3530

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catgcaagct tttagtataa aacttttgtg aaaacaaatt ttatgatact tttgaaacaa   60
aagggtcaa ataaaagaata acacanaatt gaaagaacac atgagaactt atatactgtt  120
tgtttgtcca gttcttggtg aaccatcaaa ttttactata acttataata agctataagt  180
attctttcct aagtcacttc tacttcagac ccaaagtagt ctttagactt gtgtcttcaa  240
gcaaacactc caaatattct ttgtatcata gtctcttcat acattaacta aagtcactta  300
aaagctggta tatgtaagtc ccacaattct atcatcttat ctgaataata tacaaatgaa  360
ttacaagaat ttctcagagt tttcactaaa gcacaagatt tacaaagaaa gcaaaagaga  420
attgacattg aatggtacac atctcattat cta                                         453
  
```

<210> 3531
 <211> 417
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3531

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ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120
tgggggaagg agatacccat cttggcccc tgctccacct caaagatccg tccccacatg 180
aactacccca accgaacata gtccgccata tcccgggtgc gcaaccttcc cttcggcggg 240
agggcgacgc gagactcgcg ggatgcgtgt tccacgaaag gaatacgcg ggagtcgcca 300
ccaacgttta tttagagaaa acgtcggaaa aaccggaaaa gacgtgatct acgaactttt 360
tagtgaaagg ttcgggagtc gtatttacgc acggngaagg tattagcacc ccacacg 417

<210> 3532

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3532

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atatatcgag acgctagaaa tggaatgttg aacctatgag cctattcaaa cgacaataac 120
tttttactcg gatgtctgat tgagtcccat aatatatcga gacgctcgaa attgaatgtt 180
gaacctctga gccaatcaa acgacaataa ctttttactc ggatgtccga ttgagtgact 240
taatatgtcg ggacgctcga aattgaatgt tgaacctctg agccaattca cagacaata 300
actttttact cggatgtctg attgagttcc gtcatatatc gagacgctcg aaattgaatg 360
ttgaacctct gagccaattc aaacgacaac taacttttac tcggatgtct gattgagtcc 420
cgta 424

<210> 3533

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3533

agctngacta gaggttgcaag tgtaagagct ataagtgtct gtgaacaata cttcaaactt 60

ggacaagtta gtgaaaaatt ggtggttgtc aagaactgaa cataatcttg agttaagacg 120
aaccaatata aattctttgt gtgatttctt gtctaactaa caaagagttt ttgaatttgt 180
ttttgtgaat gtatgtatac atgattttga tgatgccaaa gaagaatcaa acaaagttgc 240
ttcaaaggat aagcatggct tcaagattaa tacaagattg cttcaacaaa taaagtctta 300
cttcaagatt aactcaagat caagccttgc cttanaacan agtgctttca agacattcaa 360
gactctggta atcaattacc aggca 385

<210> 3534
<211> 441
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3534

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aagactatgt tagactacgc tattccattc tgaataaatc aagcttaaaa taacatcatt 120
agttataatg aattccatga gttttatctt aaattgagtg acatgccttc tagtaactga 180
agctagtatc tcatggtttg ctctgattac agattctgaa ttanggtgtg aatgatctcc 240
catgtaaact atataatgct acattaatgc anatcccaaa gttagttttg ttctatataa 300
gtaagtagtt aggagctgct agtaatgtag ctcataggct gtagatgcat gcaactcaca 360
ttgacagcat gcattaagtt caagtgaata tgctccttac ctttggtgtg gatccattca 420
ccanagtata cccaatgaac a 441

<210> 3535
<211> 457
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3535

agcttctata taagctngaa ccatttatca atattcattt gttgagttnt atttagaaaa 60
ttagagtttt tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
agtgagtctt tcttctctt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240

tccacctcta cccagaatta tctcgtggcc gtaactccca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatttggag cccgtgtagct tcagttattg ccatttctat atttcttgcc agccaccact 420
 taacctacan tttaccatcc cattcattca ttttatg 457

<210> 3536
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3536

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 cttggattac gnggttgaac caagctcaag cttttacaaa aaggttcatc aagtcaagtt 120
 gaaatatgga agtaaccatc ctgcaaaatt ggggcaaaag atgaatcgag tcacatcact 180
 gcttcgtcta ctgccaaca tatttaggat tattgatgtc cttggtactt ncaagttcac 240
 cttgacaaaag atgtcatgga ccatgttgaa natctaaatt gattcaaccc catattctgc 300
 gtaaaaattc gcaatacttc gactgtacat cattcgcatg 340

<210> 3537
 <211> 465
 <212> DNA
 <213> Glycine max
 <400> 3537

catgcaagct tgaggattat ggggtaccca tcacatgtgt gactatgtgt tggacgggcg 60
 aaggcgcaca acaagttttc cacatccaca atgcgcgcac aaaccaccca ttccctgttg 120
 cccaccttca actgagctca cgtactccca cgtagcccat atcctcgttt ctctcaacac 180
 cgggtcccca tcaatcctct caagcttcca caacatccaa gcagatcaac attcatacag 240
 cacaagctat cacagccaag cataatagag cataagcaga aaactctgct catacaccaa 300
 ccaagatcac agctgtttct cgcttaaaga ccacagtaac aattccttcg atccaattcg 360
 ctaaccgttg gatcgactcg aacattttac tagaagcctc tagtacataa gcctacactg 420
 tgaccgttgg cagctactag caaacatcca gactcattct gcact 465

<210> 3538
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 3538

atgcaaggaa acatgcttgt tgctaggatt ccaagatttg gctctagaat tagaaaacaa 60
 catgaaaatt aggattcgct tgtgagagtc tttgctcgaa tatgggctgc cccatgggttg 120
 atatagaggt agtgtgcaat acaccttgca ataatgtgta ta 162

<210> 3539
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3539

catctgatgt tntcccttta gccacaattt ccaagtactt ccctaataga ataaaggata 60
 tcatcatgga acttgtctca aagaaatctt gtccttcana tgtgtgcca gcgcaaccag 120
 cacgtccatg ttagcggatt ttcgcttcag tgcattgatat gaacctacat agaacctaat 180
 agtaatagcc atagtaaaat gactataaga atctccaatt tcttgaaaac aatacaataa 240
 aattgtcttt ggtgaataaa gagaaacatt aacaagaaaa gaaattagaa ttaaatagtt 300
 attgatagtc atagtacctt ttgccaaacta tgaactgcac aggcgtgcta agaattccatc 360
 ttataaaciaa cccaagagta agcgtattgt ggatc 395

<210> 3540
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3540

ctaagcttgt gcatgggagt ggngtcaata ggaagaaact cttcanagat ggaggaagtg 60
 tgcgtaaaag ataacaaggg aatgagaaaa aattatttgt aattaaaaaa aataaagaaa 120
 agtaaaatta cataacaact cttagattta tccatatcta aatgataaca aattggtttt 180
 tttccaattg aaaagggtgtt tgatgcgaac atacaccttg taattnttaa gtgagtctat 240

gtagcaaac cccatatata tatntttaag aggaaagaga ccatgactaa ttcgaagttc 300
 agttgggaca taaataaagt ctgacaaaaa aatattttca tcaaggatca aacttaagta 360
 ctacctgaat gattcaacct tagcttcac acat 394

<210> 3541
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3541

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 aaaagctcan aggtcaagaa cacttcatga taacaaagat gatgatctta agaatcaaag 120
 aatgagttca atatggttca agaggaaatt agatttcaag aatcaagatt caagggttcaa 180
 gcttccaaga atcaagatca agattcaaga ctcaagattt aagaatcaag agaagactta 240
 atcaagataa gtatgaaaac gttntttcaa aaactgagta gcacatagat ttttctgaan 300
 acctttttac caaagagttt ttactctctg gtaatcgatt accagattat tgtaatcgat 360
 taccaatagc aaaatggttt tcaaaaagct ttcaactgaa ttacaatgt tccaattgat 420
 ttcaaatgt tgtaatcgat ta 442

<210> 3542
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3542

agatgaggaa gtgtagaagg gtgaaacttc ctgcttttat tcgttgacca catagtggta 60
 cctggagata tgcgcgng gtcaggagac cttngggacg tcagggtggcg tgctattgcc 120
 caaaaccaag cttgaccaat cccgaccaa cccgggcata gtcagtcagt gagaacctgt 180
 gatgtaccta agcaggcgag ctctgggag tcaacagata aaaggaacaa agaccacaaa 240
 gcaaggaggc ttgtgtggtg gttggccagc tgtgaatctt gtgtgatata tgggttatgg 300
 cctctggtaa tcgattacta aggggtggta atcgattaca aagcttataa atgaagacag 360
 gaggctaaga tggctctctg taatctcatt cc 392

<210> 3543
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 3543

gccctagaag actggcaagt tttgttaaga ggcgggcgtc gacatctgaa cataatcttg 60
 agttagctac gaaccgatat aacttctttg tgtgacttct tgactaactg acacatagtt 120
 gttgaatttg ttgttgtgaa tgtatgtatg catgcattct gatgatgcct aacaagaatc 180
 gagcaaagtt gcttcacagg ataagcatgg cgttcgagaa taatacaaga ttgtttcaac 240
 aaatcaagtc ttacttcgag attgactcaa gatcaagcct tgccttaata caaagtgctc 300
 tcaagacatt caagactctg gtaagcgagt acca 334

<210> 3544
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3544

atacaccct aagactagtt cccaagcaag gactagccac attaaatgct tcacatgtct 60
 tgggagaggt cacattgcct ctcaatgcc cacaaagaan atcatgatta tgaggggtca 120
 agatatttat atgtagtcaa aaggagacta cttctttccc ttctctgagt ggaagtgaac 180
 atgaagtatg ggatgaagag tgtagtgagg aattctaccc tcatgaagaa tgtgacctcc 240
 taatg 245

<210> 3545
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 3545

agcttactcc acgctatcct ccatatctag attttcagac cttcgattct cactcgagtc 60
 ttcaccaa at cacgtcccg agagaccaat cttctctat ttcactctc tttcacttcc 120
 accgatcaga atccagagaa acttcatcaa atggcagagc cgtcaaagaa gagaagggga 180
 tcactttcca ccgtcaccgc tgctgccc at cgccgtcacg gcccatccgg agcaccaca 240

gcacctattc ctacttcttt gtgatctgca agatcatcaa cattgctttc atccgatgat 300
 caacggctac ggtacctttc tcagattctt ctagaataat cttagaccct aagcacctag 360
 ac 362

<210> 3546
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3546

actaagcttg tctatgctta taaattcaac tcaatgaaat aatttatagt ttactataaa 60
 aatggatatac agaagatcgg aataattact ataccgcaga tggatattcag aaatcatata 120
 cctctcatag tatcgggtgc ttgccctatc caaaatatac ctcttgtagt atcaggtact 180
 tagtctagcc gaatacttga cacccttat agtatcagat actcggccta atcaaataac 240
 tgatcctttg ttaaatactc ggtctaacca aatatcgaat atgtctaata ttatctttga 300
 caacttatta aagaaagatt acctagatta actaataaaa aataattaag ggagatatca 360
 gttccttaat gataattata cataggagca ttacctaat ntaatttgat gctgacacgg 420
 cacctgtaaa gactttgatg cttaagttcg aat 453

<210> 3547
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3547

agcttataat tggcttccaa attgattttg tgtatacaat atgatggact gattcctttt 60
 agatcagaaa tgtgccaacc aatagccgct ttacgtcggt gtagaatttg caccagttat 120
 tcttcttctt ctttcttcaa aaagttgcta attataacaa gtttggtctc atcttcttcc 180
 aagaatacat actttaaatg tgccagaagg gtttttaatt ttgctttggg cttttctggt 240
 ggactcagtt tttccaattc ttcacaacaa ccttgtaaac ataattgtct tttgaatcat 300
 caagctcttc atcacaagct aagcaatctc tcccatagcc aggttctttn tccaaaggag 360
 actgtagcac catggntgag gctaataatg ttatttcttg ctccacctct tcttcttcga 420

aataggcatc acccatatct gagtggttca t

451

<210> 3548

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3548

tcatgagtga atcaagatga ttcanagaag ttttgatgat atctttggtg acgacaaaca 60

agctcataag tcaagaacac ttcatgataa caaagatgat gatctcaaga atcacagaat 120

gagttcaaga tgttcacgat tgaatcaaga acacttcaag gttcaagaga aaatttgatt 180

tgcgagagtca agattcaagg ttcaagcttt caagaatcaa gattcaagggt tcaagctttc 240

aagaatcaag atcaagattc aagatacgtg tgataatagt ttttcaaaaa ctgagtagca 300

catggatttt tctccaaact tgtttaccaa agagttttta ctctttcggt gatcgatacc 360

agattgttgt aatcgattac cagtagcaaa at 392

<210> 3549

<211> 351

<212> DNA

<213> Glycine max

<400> 3549

agcttccatt gttcaagttt cgagtgtttt cgatatatta tgtcgctga atcgacacct 60

ccgaatgaag ggctatgacc attcgagtct ctcgagagct acctttgatc aatctcagag 120

cgatcgatat attatgcacc tgaatgcac ctccgcgaga caagattcac cgttctagct 180

tctcaagagc ttgcgctgga ctacttactc ccgcattaac agtgatgcgc ctacttaagc 240

catacgagtt tgacatcctg accttttagac tgagtcgcgc acctacgttg ctgaaatcct 300

atcgteccaa gagtttttgc tctctggtga gccactacca gattattgta t 351

<210> 3550

<211> 257

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3550

tagccctaga ggngatggac cttttcaggt tttggagagg attaataaca atgcctatag 60
 gttggacctc ccagaagagt atggagtcag caccactttt aacatttctg atttaactcc 120
 ttttgaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180
 tcaaggggaa ggggatgatg caatcctccc tatgaaggga ccaatcacta gaaccatgag 240
 caagaggctt caagaag 257

<210> 3551
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3551

agcttgagat gaggaagngt ttaatgttga atcttcctgc ttttattgtt gaccacagag 60
 tggtagctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgcccaaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtggaga 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg acaaagacc 240
 acaaagcaag gaggcttgtg gtggctggcc agctctggat tttgtgtgat atgtggagta 300
 tggcctctgg taatcgatta ccaaggttgg gtaatcgatt acaaggctta caaatgaaga 360
 caggaggcta agatggtctc tggtaat 387

<210> 3552
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3552

tagatcaggc atccgagtca ttcgttatgg ctgttcgaat attcataggc attccatttc 60
 aacttttaat cgccatgata tattacggng ctcaatcgga catgctgagtc aaaacttttag 120
 cccgtcgtaa ttcacccgag ttttccatgt ntaaatttga gcgtcgcgat aggttacttg 180
 cgttattcga agatccggtg gaaaagatat ggtcgtttgt atttgcgatg ggcttcattc 240
 ttttctaag agcatctcga tatattatga gcatcaatca cgaatccgag tcaaacgtta 300
 tggctgttcg aatttgctg gtcagcccat ttctactttc gagggcgatg atatattatt 360

ggcctcaatc ggacgtccga gtcaaaagtt ttacccttca gaattcaccc gagtct 416

<210> 3553
<211> 397
<212> DNA
<213> Glycine max

<400> 3553

gcaaaccgga gcaccgttca accacttga ggtttggaac atctacttga cagaggtaat 60
ggcttcgact cccttgagga gctttacact tgaggatatg gaagacgatt catctagatc 120
tggttctatg acgaggctag agagaccatg cctcatgaca cccagacca ttactgatgt 180
gcatatgggg accctttcca tgtatgtccg cagatgctgc taattctatt tgcatcaact 240
ataatttgat ttacactact catatatctt atatgcacgc ttccccttgg agcggctgca 300
ttatctttgg acccttgcca aagttacatt tttctcctct gaactgtaga tagatgcacg 360
catcacggct cctaacatat tgcattggcg gcactat 397

<210> 3554
<211> 129
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3554

agcnttgtaa taaatcttcc aaacatcctc taatatattt cttntcctcg gtgtattggt 60
ctttacttgt agtgagttca ttaatttctc atttgtctgt gactatgtct tttcgttctg 120
ttttaattt 129

<210> 3555
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3555

tacttatgtt gttaaagtag atgagctcca tgacatgcaa gattgtctag tcttctcct 60
agatgaattg tcacactctg ataaaaaaaa aaaattaaaa taacatgtca cacatgtctt 120
tataaaatta tagaataatt aactgctctt tntctaattt ttagcactc caatctgggt 180

catcacagtg ctttttctcc tggtttacac tgatggtaag cgagtacatc ttataataat 240
ccaccaagcc taaatcattt actgattatt gattaaatgt attactataa ttacattntc 300
gtgccattat tgtatatgga gaggttgga ctcttattat tggcaggggg atttaatgac 360
ttgtttctaa tctctgatgc ttatcataat tgttgagata caatgtattt gtcctagaga 420
ctctagtat attactctct 440

<210> 3556
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3556

agcttanacc aagacattgt tatccagaca agttcaattc atcaaataca cctccctttt 60
tctcaagaac tgcaaatect ccattcagga aaggagtggg attaagagaa gcttccaagt 120
caaaatcaat gccaccaatg aagaggaaag attctgatca actaattgcc cactctgtta 180
ggcaagcaat gaaagcctct ccattccctt ttaagatatt ttaattttta tatttcataa 240
tagttgtgaa tgaactgtga caagataaat tacaaaagct ttgttttggg tacttgcaat 300
gtacctttta aatttgatta agtntaatnt aaaacataat taagatagtt ttttaacatg 360
ctcaaaacta taaaagaaat acgtatcatt aagtttaaaa ccta 404

<210> 3557
<211> 334
<212> DNA
<213> Glycine max

<400> 3557

ggcattgcaa acgattcaca cctggactct cactcctctg ccacctcaca agcaagttgt 60
tggtgccccg tggatataca agatcaagta taatgcagat ggtaacattg agctgtccaa 120
agcgagactt gttgcgaaag gatacacaca agtggaaggc ttagattacc ttgctacttt 180
ctcccaagtg ccaagctcac catagttcaa ctcttcttg ccctttgcag ccattttgat 240
tggcatctca agcaattaga cgtgaataat gcatttcttt atggagaatt gatgaagaag 300
ttacatgagt ctttctccag aatgcatcag ccta 334

<210> 3558
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3558

agcttattgg gagataattn tcaatcatca ttgntatatg caatgacaat caacaaatct 60
 caagatcaat cactagcatt tgtggggttg tacttgcccta gaccgatgtt tagtcataaa 120
 caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat cttaattcat 180
 gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240
 aacctttaat aagtatgtcc acaagtgcta ctaattctat ttgtatcaac tataatttga 300
 ttacaatac tcgtatatct tatatgcaag ttctctcttg gagtggctgc attatTTTTg 360
 gtccttggcc aaagttacat ttttctctc tgaaatgtag atagatgcaa gtatcatggt 420
 tcttaacata ttgcattggt gggaatatgt ggaaacaata tga 463

<210> 3559
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3559

aggtagaaga agaagttcan agacattcag anatattagt ggataagttg ctgtcaaaag 60
 aattgttgaa tgaattaatt aagattaccg aaatgcaaac caaagccttg cttttataga 120
 ctcttcatgt ctggtcaaga gaaccattag aagagttata acctttagaa aaactntaaa 180
 aaccatttga aaaagttgaa aactatttga agagttacat cttttgattn tgttcagaaa 240
 ctatcactgt taatcgatta ccaaatacgt gtaatcgatt acacanagct tttttgtgaa 300
 aggatgtnga ctctttcaca attaaattga attccaacgt tcaaacacac tggtaatcga 360
 ttaccanac attgtaatcg attacaacat tntgaaataa attggaacgt tgtaaattca 420
 gttgaaggct ttntgaaaaa ctatttgcta ctgggaatcg attacaacaa tct 473

<210> 3560
 <211> 458
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3560

agcttcttat ccaaggetca tcttgngggg gtttctcctt cttctatggc ttattcctta 60
atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcctcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattattt tttttgcttt accttctctt ccattgttgt ttcttcattt tttctccatg 300
tatctcctca catgtcttgt gctaaatggt gttaacatga ttcttttagag tttccaccaa 360
ttaaacttgc tatagaagct agatttgatt ntctatgggt cacatttctt gttcttggtc 420
ttgaaccatg aattgtgttg agtttacgtt cctttgag 458

<210> 3561

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3561

atgaggaagt gttgaagggt gaaacttcct gcttttattg ntgaccacag agtgggtacct 60
ggagatatgt cgcggtgggc aggagacctt gnggacgtca ggtgggggtgc tattgcccac 120
aaccaagctt gaccaatccc gacccaaccc gggcatagtc agttagttag aacctgtgat 180
gtacctaaac aggcgagctc ctggcagtcac acagataaaa ggaacaaaga ccacaaagca 240
aggaggtctg tgggtggctgg ccagctgtga actttgattg atatgtgggt tatggcctct 300
ggtaatcgat taccaagggt gggtaatcga ttacaaggct aaaaaaatga agacaggagg 360
ctaagatggt ctct 374

<210> 3562

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3562

ttagagtcta actgcacgcg tgcgcgcgca agcttctctt ttgccatact taaaaatttg 60

natTTTTTgc ctgggcgtat actttcaact agcgTTTgta gaggcTctat agcgCattga 120
 cagcctataa gcaaactaca tgtagatgct gtcgtagata tagaactctg gttggTgtga 180
 aaagttgctt ttccatcatg aaaatgaaac tcagattcca gaaaagattg ccgtatagag 240
 atgggaaaac tcgaactttc ttgcttcgtg aacgaaactg agtcacaata catccctaga 300
 gctg 304

<210> 3563
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3563

ttgaanatct ttataccctc ganancnacb cagcgaaact aagcttgctt cacaataaca 60
 acgccaacga tttttctact atatatngac tgccgacagg agtacagaag tcatacacta 120
 ttcttagaat gattataacc ctggTccaca gataaaagac aatggctgct cacctggctc 180
 gcctctccta cttttacact ccatctggTc atcacaagct ctttctctgg tttacactgg 240
 tggaaccaga catcttataa tatccccag ccaatcattc actgatactg cataacgact 300
 actataaaca ttctcggcatt atttgatatg gaaggTcgca ctctatatgg caggggaatt 360
 aagactcgTt caaccctgac gctatacaat gtgaacacat gatgtctccc aaacctatat 420
 actactcttg gatatgatat acatactcca tcagct 456

<210> 3564
 <211> 129
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3564

agcttaggga tggaatactt acttgTtgTt gatgaacaaa aacgcacaat ggaatcaaaa 60
 aatgcgaaaa aggatgaccc tagggctaca aactcgTcaa tcccgtgggt atggctTntg 120
 aaagggggg 129

<210> 3565
 <211> 154

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3565

tacaaaacct aggtatctct gcanaagctg ctctctcttg agtcncgaga gctcttttcc 60
cgaaataggc actgtgggtgt gttgtggaat tntgtgcctt ggccttctta aagttttgta 120
ccctaatttt gcacaagata ggctttaaat aggt 154

<210> 3566
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3566

agctgccaat gttgtaaaat tgtctgtttg tccacaggta gcaaactgtt ttgatttgac 60
tttgcaacga gaattgcctg cggatgcagc ctggtacata tataccacaa caaattcata 120
ataataataa taataataat aataataata aaaaatgaac tggatgcact aattaatgat 180
ggagacaagt cttggcttat ttgaaagaag ccatattgac atgaaacttt aaaatatata 240
ctttaaaaga cagtacttga aaaaggagga cattgaccct ttggttanca attctaccat 300
ttgattttct tggtagcgat gacatatgtg atacgtctaa attgaaggaa atacgtataa 360
ggagattttc ttact 375

<210> 3567
<211> 169
<212> DNA
<213> Glycine max

<400> 3567

agaatcggaa gaagtaattg gctttttccc tggcgatcta actgcagatc tcttgacctc 60
tgccgtggaa gcagctgcat aagccattca tgatatttct acaccttaga tcaacatgat 120
gaaagcagct ggggtgggacc ttgatgctga tgccaactga ctcgaacct 169

<210> 3568
<211> 79
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 3568

agctctccca cccatcatcg gcngtttttt natacntttt tgtcaccatt gnagaaacga 60
 cgaagacggt ggaagggag 79

<210> 3569
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3569

agcttatgag aaaccattaa aactttttgt tttcctatac aaacancaat ggaagaagct 60
 tcgtcaagta ttcccatga aaaaccttta ttcaaactt tcaaagttag tgagaaggct 120
 acacgaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaat 180
 catagtgaat tactaaataa gattgcgtgt ttacttaagg acattccaga tactcccaa 240
 acctcgaaaa atacttccaa aatggcaaca agaagtacct ccaaattaat taatgctatt 300
 aatgaagaga gtggccacaa ctgagataat gatcatgac acacaagaat ataatccac 360
 ttaatttcaa cactggaata caccctccag attatattat caacgtccga ctgccctgat 420
 cttt 424

<210> 3570
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 3570

agctttttga aaactttttg aattgctttt tgagaaaact tccttgagaa gctagagctt 60
 agctacacat acccctetca taactaagct cacgtacttg agaagcttcc ttaagaagat 120
 tcctaaagaa gctaaagctt agctacacac acctctctaa tagctaagtt cacctccttg 180
 agatgagaag ctagagctta gctacacacc ccctataata gctaagctca ccccatgac 240
 aaaaaaacat gaaaatacaa aaaaaaaaag tccttactac aaagactact caaatgccc 300
 cgaaatacaa ggctaaaacc ctatactacc agaatggcca aaatacaagg cccaaacgaa 360
 gggaaaacct attctaatat ttacagagaa tccaaccttg agccat 406

<210> 3571
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3571

tcctcggngc catttcctgc gaaggcaaaa atttggaag ttatttntac cagtgggaca 60
 ctactcttat aacaaaaatg gcgtacaacc tcctcccata aatacaaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc actngcacia gacatcctat 180
 caactaagaa aaatgcaccc atatacaatc aaggtagctt cattacctag attatgtact 240
 tccaaggtgt atntgttatt tacatcacac acgcctcctt ggctgaattt acatacatgc 300
 atactcaaag cattttgggg taccaaaaac tgcacatgcg ctcactcttg tatttctaata 360
 acccatacat atacaaactt cacgatgaat cttgactacc tacac 405

<210> 3572
 <211> 616
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3572

cacgcgcgac acactcttcc agtanticacg acactngcgt acactacgnc ngtgccgcna 60
 ggaacacgca tactccagac ccccccccc ccanmmttg aaatcaattg attgccgtcg 120
 cannnacagn cgannnacga gagacgagcg cgcacgcana gcaagcnnca caacacgagc 180
 aangnaagnc atatattctt gttcaacaac gcgagaaaca cgaacgcgca acgcgagcag 240
 aangtgcgcg gacaacacga ccacaccacg cgacaagaca caacgtaacc gaccgccacg 300
 ccgcaacctc aggaaaaccg aagcacagca aagaaccaca aaacacgcaa catagctcgg 360
 agaaacaata agcaaagaag caaagcacc ccgaacaaaa gcaccacaac aaacaaacgc 420
 gacgccagct gggaaagatg ccccgaaacga agcgacgact aaccaacgtg aaaccaagac 480
 caacatcaac gcccaaacca cgcgctggac cgaacaacac gaaaaaccgc nccaggaccc 540
 cgcctaaaca gaccatttgc agcaaccggc acacgaaccc aaccagcgaa acacaccggc 600
 gccgacgacg cccacc 616

<210> 3573
 <211> 138
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3573

ctcgccttggt ntggaagttc tatagagaga atgttccaag ntttatagag cncctgagaga 60
 ttntgctgtg cgaagatctc tagagacgag agctcgaagc ggaagccatt ctgagaactt 120
 gagatgagct tgtgagtg 138

<210> 3574
 <211> 160
 <212> DNA
 <213> Glycine max

<400> 3574

agagccatga gcctagggaa gtaatacaaa cgtactgggt gaatgtaact gaaattgttg 60
 gcaaccataa ttcaccccca acatccaaca agtcagcctc cattaggtct ccaaatatgc 120
 tgatgcctat gttgccaaat ggggccatat tacgacatga 160

<210> 3575
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3575

agctntgcaa caaatgtcac tctactcgaa atttctgata gatatgtttg acaggaaaaa 60
 caaacacgtc caccacgaga atattgtcgc ggaacgaaac cgcagtgtctg taatacagag 120
 aattcttcca ccaaaacata aggaccctgg tagcgcaact actccttgat caatcgaaga 180
 agtcactctc ggaaaggctc tcattgactg gggtgccaga atcaacctaa cggcgctctc 240
 tatgtgtaca aggtcgggag agctggaaat cacgctcacg agaatgactt tacaacttgc 300
 taaccgatcc atcacaagac cttacggtgc agatgaggaa gtactgacta gagtgaaac 359

<210> 3576
 <211> 297

<212> DNA
<213> Glycine max

<400> 3576

aagaatatcc ctttatttac aatattgtca cctttaataa tttatcatca gttcgagaga 60
taatatcggg tttgatcaaa attaattgta acgagcattg tttattaagg tcgtcaaagg 120
aaacttattg atgcaatgct acccgccaag ggcattggat agaagactcc aagaagattg 180
ggtcagatag gcaagagaag gccctagggg tctcaagagc cttatggtag atttcggggac 240
catgggctaa gtatgagccc acttatcttt gtacatatca tattatgatt ccattat 297

<210> 3577
<211> 392
<212> DNA
<213> Glycine max

<400> 3577

agcttcttgc tggttgctta gttttagaa acttttctca taatgtgtgt ataacagaag 60
gggcgagaag ggctgcaagg tgattttacc taacatagtt gtgggaaatg aacaggcagc 120
aaggagcatt tcctaataa caggctgtta atggaaatgg aaagaatata tatggatggg 180
gaattgggga gaatgtaggc ataatcactt gcgacacaag caagatacca aaggctcata 240
attctttgta agaatgaact attctcgggt ctgtactctg ctttaccagt ataagaagaa 300
caggttactt ccattatggt cttctgttcg ccttaatcta gatagtacac atcattttgt 360
tattagagct cctaataccag tatgtcctga at 392

<210> 3578
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3578

actcagctta acacnatgta accaccacac cttgtaagaa agtattttata tctgatttat 60
aaataaacga ttatatgagt tatgggccac gccatacaga ttattaaacc ttgtggggac 120
agagcagtga ctgttgctaa agggggaacc ttttgaggga gagattatct cctatttttag 180
ttaatagaat atttgggttc ccaacaaaaa atgacgcagc tttttgcata aatatattat 240

tgaattactg actgggcggt caatcttatt gatacttccct ccctcatggt ntacacaaat 300
atcattgata cgtcccaaat catcagtctt actgaatgaa accgggtacc cacaataacc 360
agtgatgaaa ctgagacgga acatatgaca gaccatagac gagaccaatc agttcataat 420
atagcatcca tacaattaa tgagatggaa gtcgctggat attc 464

<210> 3579
<211> 461
<212> DNA
<213> Glycine max

<400> 3579

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tttaatactt gtaatgcgcc taccatcacg attattgtct ccctttccat cattgagggt 120
accacttggg ttgccagatc cctccacctt tgggctgatt ctttgaaaga ttcatgcctt 180
tttttgaca tgtttttag ttgtatccta tccggagcca tatcaaaatt gtactgacac 240
tgcctaacga aggcaaccat taggcctttc cgagaatgga ctcggaagg ttccaagtta 300
gtataccagg tgacagctgc gctagtaaga cttttttgga agaaatgtat cagcagtttc 360
ccatctttta cgtatgcccc catcttcga caatacatctt ttagatgggt cttggggcaa 420
gcagtcccct tgtacttgtc aaagtcgagc gccttgaact t 461

<210> 3580
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3580

tgtagatggt gagcaatagt catcaccgag attgaaatgc ctttatntt ctctaattac 60
accattgtca ctgttattca acatatgatg gttatgatct gttatatggt ttagatcaat 120
aagggtggctt gacacaaaac tgtaacaaa aacccaccg ctggtaatgg tcaagatact 180
agccaaaaag tgggcaatat gaaactctaa cacctgtcac ttcattttt tggcctcctt 240
atgactggag ggttccgag acctattctt gtgatcacag ttttgtctt tgcctttgca 300
actgtctttc tcctttggct ctntgggaga ggggaactgc actagtcgaa aggtccctac 360
gcgcaagatt tnggtaatag aagccgctag aatgggtgtg ctgacattta aaagaatgag 420

ttntgaaagc tagtcaaaag ctaccatgtc acaccaat

458

<210> 3581

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3581

tatcttaagt cacgtgcggc atgcaagctc gactagtcca cataagtgag aattcntatt 60
tgtctaagac gaggagcatt aagggttatc attgcctgac aataccgctc atcaacataa 120
catttggtgtg gtttgcagaa ttctttgagc ttaggatagt aagtattgtc ttcaactatc 180
ctaagagcta gttctcggct aatttcaaac cactgggagc cttttcacca ggcactcatg 240
ttgatttcaa attattttgt ttggtattag aagcatactt cccaatgag tgagaaaagt 300
gtacataaca tatttaatag catgaacaaa caatttataa agactcagga taagatcatg 360
aacaagcatg agccagaaac ccatgatca 389

<210> 3582

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3582

gctgcataac ccagcccaca agaagtttct acgattttgt gcagaaagcc ggcatacagc 60
ctggataatg acgctgacca cagcgtgaat agcctcacga gtggatagta agaatnctag 120
cctcaacaaa agaggaccca agtaatactg ggaagagagg gaggggtcac ccagggtgatc 180
ccaaaagagt gagaccatgt tgactggaca aaaatgaaga ccactcgtca aggttgaatt 240
agaccaagag aggtctgtca gaacaaagag tgagaattgt tcacatgtat cgacaccttg 300
tctggctatc caatttggag attgaagact attgaactta tgcccaatat gaacactccg 360
ccaaattcta agagatggat ctttt 385

<210> 3583

<211> 424

<212> DNA

<213> Glycine max

<400> 3583

gatcttaagc accgcggctg caagctgtac caagattctt ttctccttta cttgtcatct 60
ccaaatcgag aggggaagggg gaagggggaa aagggaagag gaagaagcct tgaagataaa 120
gaattgtagt caactctttg attagtagtt gtttaagaac cctaacgact ttaataatTT 180
tgtaattgaa ctcatgtatg attattaact ttatttttagt tgccttggtta attttcttta 240
gtatgtcagt ttctggcctt ggtccaagtg ctcatttttag tgagagcaat aaatatacct 300
cttaagcatt ttgtaaggac cttttttggt tgaataatta caatttttagc ttggtgctaa 360
tagagaaagt gcttctcttt ggttctttct tggaaccctg attctcatca aagaatttca 420
ttct 424

<210> 3584

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3584

ttctttggtt cttaaaatta tggtagtct ccttgtgtga tcagcacctt ggactaaact 60
ctataaatag atatgtaacc cctttcatTT gaggtttgct ccattgtggc ggtaagtagg 120
gcattggctc ttttttttgg ttataggatt agaatcttct ttgaatctta tcaaaggctc 180
ccatactttt gtggtgattc ctcacttagc ttatcattct cctagagtgt ggcaccttcc 240
ttttcatttc ctgtctatgc catcttttcc ttttgttatt tacttttcca tctcttttcc 300
tcttatttct tactatcacg ttctctaana ttngcaccat tgttacaagt ctttatcttc 360
gtgctaatta atatatttgt ctntaattcc tttaaaaaga taaccaactc aaggaagact 420
tgtaaaacag tatggtttct gctaaggatc atat 454

<210> 3585

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3585

agcttgccn ccaattntct ataaacatgg ggttaagtga agtagaaaac gggtcagccc 60

cttaggcact tctctctctt tcgaatttgc ttaggaaaat tgtttttgtg aagaaaatcc 120
aagccgagggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct 180
tcgacgttct tcatcgttct tcagtcttca acgggtaagt acctcaaacc aagcttttca 240
attcattcta tgtaccctg gtggtccaaa tttggtttca tgtattttta gtctcgtttt 300
catttacttt ttataccccc ttttgacgtg cttaagccat ttatttaagt catttctcgc 360
ttaacctaaa aataaaataa atttccaccg atcatttgaa ttgtatcatc cgtaaactct 420
ggttgaaata aattccgacc gatcggtcgt g 451

<210> 3586
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3586

ntggtctcta tagatcttca cacagcanaa tctctcanaa ctctctggaa cttggacctt 60
ctctctctag aaaccctaga cagcгааagc tctgaatccc agtccaaact ccccttctga 120
aatctgattt caggcttaaa taggtggcct tgtttgtgct cgtgagctta tcacacttat 180
ggaccgctta gtgcacatta gtgaatttcg gcttagcgtg ttcctttctc gcttagcaaa 240
tgaactgaag cgtggcactt agcgaacctg tacatcttat cttcttccag agtcttctc 300
gcgcttagcc catgagtgtt gcgcttagcg gaggtctcgt aagccagcag aatggcttag 360
cgagaagggtg aaaaatagca ctttccanag cttgcctaataaacctgana ttgagagaac 420
atgataatca aacaacaat aaggaagtac taagtattta ttacctatac 470

<210> 3587
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3587

gagcacctgc ggcattgcaag cttgtaggat tatggngtac ccatcacatg tgttactatg 60
tcggcgggcg gcgatgtgac acaacacgtt ttccacatcc acaatgcgcg cataaaccca 120
ccatccccctg ttgccacact ccaactgagc tcacgtactc ccacgtagcc catatcctct 180

tttctctcaa caccgggtcc ccatcaatcc tcccaagcct tcccaacatc aaagcaaaac 240
aacattcaaa cagcacaagc tatcacagcc aagcaaaaca gagcaaaggc agaaaactct 300
gccataacac caaccaaadc acagcttttc tcaactaaag accccagtaa caattccttc 360
gatccaattc gttaaccgtt ggatcgactc caaaatttta ctggaagtct atagtgcata 420
agcctacatt atgaccgtcg ggatctact 449

<210> 3588
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3588

nttaacgcaa tcataccttg agaccctgca catccaaaca cagctaactg ctagaatcag 60
agaacacgat tttcaaacga tttggaatat actgacgccca gtctatctat atacaattgc 120
ctgtcgcttg cttgaactct gatctcaagt aatgatatgc cattactcaa aagggggaca 180
ttgttgatgc aaatgaactt catgttctga tgaagatcat gacgatgtgt tgcaattgat 240
gcaaccggcg cttttcatga ttaataacca ggacaatacg tcaagactac aaggcacaac 300
atcaagatga gcactagaat attacgaagg gaattcctaa ttgaattatc caacagttgg 360
cccagtgatt tcacataaca acgcgttttc aaggtnttac tctctggtaa ccattaccag 420
aagatgaaac gactaccagt ggcaaatacg ctccatacac ctataaaaat cgatctccag 480
ttttcagctg cactcctacc cc 502

<210> 3589
<211> 185
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3589

agcttagcat caatcacctt gctgaccata acattagtag gaattgnggc ttcccataat 60
ggatacaaac acaagggatc acattcacia acaccattca agtatgaaaa cgtcactggg 120
gttccgaatg cagtggattg gagggaaaat ggagctgtca cagcagtcaa cgacctacgc 180
caatg 185

<210> 3590
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3590

tgtacctagc atccctacaa gagattatta aatctttgaa attgagttaa attaattntt 60
 ctgatgtagc aagaatcaat aatgagtgc tcaactttta atagggtttt ttttgtaa 120
 tcaaagatat tttgatgttt tgatgatgcc aaaggaacac gtttctcaag ttttattcaa 180
 gacaagaatt caagatattc aagaaattca agaaataatg atcaagaaaa ttcctagagt 240
 cttacgaaga atattccaag ttgaaacagc aaaagggttat gcccaatgat gtaacttaat 300
 atatttntna aagagttgta ctatctgatc at 332

<210> 3591
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3591

gcaagctttg gtttcaatta cgttcgtggt gatataattat tggactcaat cgtacattcg 60
 agtaaaaatt tattgtcgtt taaatttgc t agagcttct tttttcaatt acgagcgtct 120
 cgatatacta cgggagacca tcggacatcc gagctaaaag ttattgtcgt tagatttttc 180
 taatagctta tgttctgatt tttcgagcgt attgatattc tacgggacac aatcggacat 240
 acgaggctaa agttattgac gtttaaatat cttcagagct tctgtttctca ataacgagcg 300
 tctggatata ttacgggact caatcggaca tgcgagtaaa aacgtattgt cgcttcaatt 360
 tgctcagagc ttccttttta tattacgagc gtttcattg 399

<210> 3592
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3592

tgtagcaaatt tcgaacgaca attacgntnt actctgatgg tttgattgag cccgnaatat 60

atcgagagggc tggtaattga aattagaagc tctgagcaca ttcaaacgac aattactttt 120
gactcggatg tgcgactgtg ttccgtagta tatcgagacg ctcgaaattg aaaactgaag 180
ctctgagaca aagcaaacga caataacttt atactctgat gttcgatagt gtcccataat 240
atatcaaaat gcttgtaatc gaaaatggaa gctcttataa aaatcatacg acaatctatt 300
ctatgtcggg tgttcgattg tgtcccgtag catatcgaga cgct 344

<210> 3593
<211> 371
<212> DNA
<213> Glycine max

<400> 3593

agcttgaggt gaaaccact ttaacttatt attttgcgc tggctgctaa ccgggaaaga 60
cccttttggg tttggcataa cctatacaat gacgactgtc atctagaaaa aatatctgtg 120
aaagccattc cttggacatg gaattctact catttgagtc ttatttcacg taagctctgt 180
aatggctggc gtacctgatt tcctaccttg gcttttaatc cctataaaat catgaaagta 240
cttttgctga ggaggtttta gcacggcacc atgtatcata tcactattac tgaatacgtt 300
tcttcatcat atttatttac acactatgat tgtcaaggat gacgttttaa ctaatagtcc 360
cttctcaaat a 371

<210> 3594
<211> 352
<212> DNA
<213> Glycine max

<400> 3594

ttagcccatc aatccttttt ctatatctat catattaatg atccgggctc ctttgaatat 60
tttacaggaa agattctatt tcacctgtaa tccgattcgc aatcccgtga tgtgaccgcg 120
ctatttcata taaaataatt ccttctctta tatgtgcaca taccagagtt gggttagcgc 180
ttttttcttg gtcaaagtaa ttacaccatt ctaccagttt agcggctgtc gcaccttctt 240
taccttacia taccaccac tgcacaatgc cctcacgtgt acctcaggcg cggcatcctc 300
tctgtcatgt gtccttttac cgcattgcacc accaccatcc tatgcctaca tt 352

<210> 3595
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3595

agctnttcga ttcattctat gtaccgtag tgttccacat tgtgtttcgt gcattnttat 60
 tctcgttttg tttacttttt atacccttg ttgacgtgct taagccattt tacttaagtc 120
 atttctcgct taacttaaaa ataaaataaa tttccaccga acgtatgaat tgtattatcc 180
 actaacttcg gttaaaatag aattcaaccg 210

<210> 3596
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3596

gtggtaatca aagcacaaga gcttcaagaa ggtgcttctt aaacctccac taatttccag 60
 ctttaccttc tctccattg ttgtttcttc atttttctcc atgtatctcc tcacatgtct 120
 tgtgctaaat gtttttaaca tgatatttag aatttccacc gattaaactt gctatagaag 180
 ctagatttga ttttctatgg ttcanatttg ttgttcttat tcttgaacca tgaattgtgt 240
 tgagtttaag ttcctttgag tcttgtcttg ataanttttt gtggctgaaa cctaaaccat 300
 aaaattctta ctaaaacatt aaagtagaag ataacctcta aactctagag agacttgttc 360
 tctta 365

<210> 3597
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3597

taagtcacct gaggcacgca agcttgtagg attatggngt acccatcata tgttgtacta 60
 tgtggcgatt gggcgatggt gcaagtcgac tttccacatc cacaatcac acataaatcc 120
 accatcccca gttgccacc ttcaactgag ctcacgtact cccacgtagc ccttatcctc 180

gttcctetca acaccgggtc cccatcaatc cctccaagct tccacaacat ccaagcaatt 240
 caaaatccaa acatcatgca ctatcaaaaa caagaaaaca gggcagaggc agaaaactct 300
 gcccaaaaca caaaccaata ccacaacttt ccttactcac ataccccagt aacattctct 360
 tcgttccaat ttgttactg ttggatcgac tcanaanatt tactggaggc ccctagtaca 420
 taagtctaca tnttgaccgt tgggatctgc tagaanacgt ccagaacca atatgtacta 480
 ccctttt 487

<210> 3598
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3598

taagtaataa taatagtaag aagaatatta ataactatta tctatancca ttttgtggca 60
 ttatgaatga caggatgtag tgacataaag tgcttagaga gttcacttgc atgtgaaaaa 120
 ttttcaaaaa gaaaaagact taagttaaaa ggataatgca accagattaa tacttccaaa 180
 gaaaaaaatg ttttgcaaag acattttcag acaatttaaa tatttttatt tgactatatt 240
 agtataaatc atctctaate catatatttt ttaatattat gttctttnta ttcattntct 300
 tttgatatac tttgtgtttt aataatttga attcaatatg attntgttta tcaattattt 360
 ctggatttga catntactta tacgaaattt ataagtttct ttttttggtg gtatttacta 420
 ggttttaaatt gttaattggt aaagacgt 448

<210> 3599
 <211> 559
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3599

ccaccccaaca ccgctgcat gcgcacaaacc acccccaaaa aactcanct ccacaacccc 60
 aacggatgac cattcatgca taccncacac cagacgcagc aggaagctna attaagatng 120
 nccaaccgac aattactttt acttatcaga accaccaccg gcccagaaa cgccacatcc 180
 aggagcaccg cagccgcccg caagacaaca caaacaaga atctacatca accattaacg 240

tgagcacctc atctagccct gtgcctcgag tccaacccta gccaggaatg agagcagaaa 300
 tccagacacc acgaagaata caaagcccca ttgccacacg gaaccgacaa gaagaatccg 360
 tgaccatcct ttcgccactc agcacggcac aaagtaagtc gagcacaact catacaaacg 420
 cggggggaccc tcaaacgacc gccgagccct caaaaccccc cctaccgact actgccaacc 480
 caacaggacg ccgaacaacc acccacgtac caacacgcaa ccaaaacagg caagatacca 540
 ctccacaaca cgacaagcg 559

<210> 3600
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3600

agctttaatt agaacaaaaa aaacatatgc aatattgtta ttaaattaaa attgtgaatt 60
 tttaaaaata aaggatcaaa atcgtaggaa aaaaaccaa ggatcaaaat tgtagattag 120
 aaattatagg tgataaaaat tacaatttaa cctaaaacat ttaatcatta tataataaaa 180
 tttaatagat ataaaatatt aaaaagtga atttaattta aaattactct taagataact 240
 ttattgattc tcgtgataac tatatttttag agcttacttt ttatgtgcgg aaatgacaga 300
 gaatttttac atgtacaagt taataaatta tggtagacaa atatgttgat ggtctacttt 360
 ctggatattt taatatatnt tttataagca tttagttctt attaccatga cacctaaat 419

<210> 3601
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3601

gacattgctt ctgaagatca gagttattca aattagttag cagcatggat cctttcaatg 60
 ctagcagcat acttcacag aagggtttaaa gacattgaca caggctagga gaactaccac 120
 tttcaccaag gataacaagt taaaccgtga ttcatacta cttacgtagc ctctaaccaa 180
 aacctttcca cacgggttga tttcaagtaa tttcatagta gtaaaacaac gatccatgac 240
 tatgtgcta attcattcgc ttttcttttc tctcccatat agaccacaca gcatggatta 300

ttactaatta agttctttct gacgcacact ggcacccaat ctttgtagct caccagcacc 360
tactttccca aacaagaaat cgaagtccat aactgttcca cagtactcag agaagtgtan 420
gagcaaataa tgattttaag ggtaattaat taatcaccaa aatctga 467

<210> 3602
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3602

caccaccccc ctcaccacn ctcattgctt attttcccg n cccccaatac gacnnatagc 60
ctgaaccgac tacgcacgcg agcacttttt taaaaatcgc aggatacatc atttaagcac 120
ccccggtctt cttggtaaca tgcccattgc ccaaattcaa gaaaggaaac acacaattca 180
tcataagcac ggcatcaatg taaaacaagg gctaccaccc ttttcacaaa aaaaataaac 240
caccttactg gcctaccaat caaaggaagg taaactgttc accatgcttc aagatgagca 300
actatacaac tcattggcaa gactaacaaa aagtaactca tggactaacc atcaaggat 360
actaataact caaaagaagc accaaaaata acccacacga aattaaaagg cccatgattg 420
gccctaagag gcctcgcccc gaaaccccc cctcccatgc gaatgcagga ccgacagaga 480
tacaagagaa gcatttcgag aactggactg ggggtggtcc g 521

<210> 3603
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3603

tttcttgata aaagaatgat taatgatatt tataaaaccc aaagctataa caattntggt 60
tgtccctata ttgagttcta tttctaagga tttttcaa acggaaaatt ggagaggtga 120
aaaatattgg ttaagtaaaa gtgttacatt tgcaacattc tgatgtaaaa tatagaaaat 180
aggttactgg aaattttctg ctcagcaatg ttttgggatg actggatcta gattttcaat 240
aataagaatg aaccagaaag gagattaaat ctacttcctt atctaataaa atctgttagg 300
gaacaaaagg ctggagtagt tttgagcttt gaatggtatt taagaacact tggtcagtct 360

ttaattcata tggtaattgt gagtatntaa tatattatga acttctcgta aataattgac 420
 tatatcta at ct 432

<210> 3604
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 3604

tagatcaggt gatgtgttct ttgtttggaa ggcaaacata gatatatata ttattaataa 60
 gatcagatca gcaccagaag tactgatgaa ttacacataa atacaagaca ctaagagtgt 120
 cgccttccaa ccaaaacaaa ccctccaaaa atccactaca aaggataaaa tatccatccc 180
 aaacagatat acaatgcacc cagcccatat caactaatat aagccacacg gttcgaagac 240
 cattgggtga aggatatact gaagagattc tc 272

<210> 3605
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3605

ttcacattta cttgatgggg cctatgcacg tcgaaagcct tggaggaaag acgtatgcct 60
 acgttgatgt ggatgatatc tccagagcta cctgcgtcaa ctatatcaga gaaaaatcac 120
 acccctttga cgtattctag gagctgagtc taagacttca aagagaaaaa gactgtgtca 180
 tcaagagaat cacgagtgc catggcagag agtgtgacaa cagcagggtt actgaattct 240
 gcacatctga aggcacact catgagttct ctgcagccat tacaccacaa cagaatggca 300
 tagttgagag gaataacagg actctgcaag aggatgctag ggcatgctt catgccacag 360
 aacttccta taatctctgg gctgaagcca tgaacacagc atgctacatc cacaacagag 420
 tcacact 427

<210> 3606
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3606

attgacaccc tgatgcccg tgaanccct tcaactatcca gactcaagct tctatttaga 60
cctcgatcgg tcatctntcc tgtgtcgacg ctctctgtca tttcctttcg agcgagacta 120
gtgacaaata tgttggtgtc acatatcgcg ccttatataa cttacttgcc tgtgaaaaat 180
tttcaaaaga gaaagactaa gctacacgat aatgcaccac attattactt ccaagaaaaa 240
acgtttgcaa gacttttcag acaaccaa atctattttg ccattttaac taaccatcct 300
aatcccaaaa ttttggaata tatgcccctt atcatatcct tggatacttg ggcttaatac 360
ccgactcaaa tgaactgttt acaatattct gggattcgca ctacttatcc aaaattanag 420
ttcccttttc gtgcgtttc cttgcataaa caatatattc gttacacctt ttacccgacc 480
cc 482

<210> 3607
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3607

agcttcctcg gggccattcc tgcgattgca atanttgga agntagtttt accagcgga 60
cattactctt aaagcaaaaa tggcatataa cctctccca taaatacaaa caccaatgta 120
aatttagagc aagcttatgc gcatatttcc ttacatacgt tctcttgac aagacattta 180
accgaaaaag tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacacgt 240
actgccaagg tgtatttggt acttacatca cacacatctc cttggctgaa ttacataca 300
tgcatactca aagcattttg gggtaacaaa tattgcacat gtgcacatct tggattttct 360
aatacctata tatacacaaa cttcatgatg aatcttgact atcttcacan aaaggcgcta 420
catttcac 429

<210> 3608
<211> 606
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3608

ccccgccct cccaacaca ctactctaga ggtcctcagg gcacgaccaa ccacaaaacc 60

cnnaaaaacg cgnacnngga ggannnnttg gagnccccct gtgaaggccc tcgaggcccc 120
 ctcgcaaanc ccncgaagaa gnngangnag gagaacagag gcaggcanan gatctagcaa 180
 cacttatacc tataatgctc gccggagacc agcacgagaa gagtaaagac attgacccac 240
 gctaggagaa ctaccacagg caccaaggac cacaagctaa accgacgagc aacacgacct 300
 acggagcctc aaaccagaaa cccccacac ggggagagcc caagcaagtt cacagcaaga 360
 aaacaacgaa ccaagaccac gctgcgaaaa caggcgcaac actctgtccc ccacagagac 420
 cacacagcac ggaacaccac gaagcaagcg cccaaggcg cacactggca cccacggcca 480
 gcagccaacc acgaccgacc acgccacaca gaaggcgaca accggaaacg acgcacagaa 540
 ccaaagaagc gcggaacaaa acgagacgcg acggcataag caaccgcaca aaccgggacc 600
 agccccg 606

<210> 3609
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 3609

agcttgagct tcagctgcta tttatctaata ttatatgtac atcttgtaag aataatatga 60
 tatatgtcac agcttacaaa cattgatgta acattaaaaa ataatcaag taactagaat 120
 atgtgaacag ttctagataa gggaatatca gcacaacaac aacaaacata aaaaaagga 180
 taaaaaacat atgaaaagaa agaggaggaa agaagagaat aacagttgac tactacaata 240
 tccttatagg tattaaaaat atttgcaata acatgacaaa ggaattgctt ctcttaacat 300
 tgtctaaaaa aaactaacat gataccatgg agtaacaaag ttcagataga ggtttcttca 360
 tttataacag ctacttcaa aatagacttt ttatttccat ttactttccg tgttagtcta 420
 aggaaggac tagggagagt gacatagct 449

<210> 3610
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 3610

tcacagatcc gatcatggaa ggagttggca tctgccttca ttatgcagta ccagtacaat 60

acggatatgg ctcccgatcg gaaccagctt cagagtatga ctaagcgaga gcatgagtcc 120
attaaggaat atgcccaaag atggagagat ctgcgagccc aagtcgtacc gcccatgacg 180
gagagggaaa tgatcacaat tatggtagat acgttaccga cgttctaata tgaaaagctg 240
ataggctaca tgccagctaa ctttatggat ctcgctcttcg ccggagaaaag gattgaatcc 300
ggactacgga aaggcaagtt cgaatatgct tccaatgtgg cccccaacaa caacagaaga 360
gccctagtag tgggtgagag gataaaggaa ggagacatcc acgcgtgcac caccgccccg 420
atgtggatga tagcacccca aaatatctaa agctcatatc 459

<210> 3611
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3611

agcttaaccg agactcgcgc ttcggttaat gtccagtagt ttcctttgat cagattctgg 60
gccaccccc tgatattgga gggcgaccaa ctgtgcaagc acaaccagag agggaggcta 120
tcacgcacct actatgcata ccggggcaag atttcacccg tgccgctgca aagaaacgag 180
tgtggatcat gtgcaccaac atgactacta ttacacagat atgtatgaca ttgctactta 240
tcaacattct accctgcaga tgtatcaggt ggtctgtgtc atcccgacat aggtaagtat 300
gcatatgggt caactgattt ctaatgtcat ctactatntg gagggagcgc gaccacaatg 360
caccagtggt acccgaggga gt 382

<210> 3612
<211> 193
<212> DNA
<213> Glycine max

<400> 3612
gagagcattt cttatttaag cacttttggc ttttgtttcg cgtagcttag gaaaaacgtc 60
acttattctt ctttgtttgt tccgaagcca tgtgtaaagt cccaagcacg ttttacatca 120
gccagagtca ccattagtca ccacaaacca tcattgggtc tcattgtaaaa cccacaccga 180
gaggaactct tca 193

<210> 3613
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 3613

ggctgcagct tgaagctgga gaaagctggt ttgttttgct ttacatgccc tactcccttg 60
 agtggaaattt gtattggtct gttctattaa atgttgcac ttagtccata tcatatcttt 120
 tgtgcatatg catcattgtg aataagtggg aagaaaattt ttaagttaga acaagttctt 180
 cagaaggcaa aactctttgt tctaacttat tacagcctta ttgtaagcga ttacaaaagt 240
 tgtctaaagc ttgtagagtt atgtctcgta tcgatttatt cacaaaagtt gtcatttaca 300
 caattgcttt tagacaatga ttggcttatt caggagcctc tactataatc gattaccatg 360
 tgatataatc gattacttct ctttcta 387

<210> 3614
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 3614

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 gctatagccc ataaccaatc ttgaccaatc tcgaccatc ctgggcatag tcagtcagtg 120
 agaacctgtg atgtacctaa gcaggcgagc ttctggcagc ctacagatat aaggaacaaa 180
 gaccacatag caacgaagct tgtgtggtgg ctggccaact gtgaaacttg attgatatat 240
 gg 242

<210> 3615
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3615

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 tctaaattga agcgtctttc ggtgagttaa ggtaggtgg ctagattttc taaattaatt 120
 aacacggatt acgatgtgtc gatgtgacac gaatggagtt cccctagtag catgtgaatg 180

aaatcgtcac aatttcatta ctttatattt aaaaaaaaa atgggttaag gtacgaatat 240
 tgaatgataa aataaataat tagaaattta gaattcacta acatgatgtc attcaattat 300
 agattttcat cacgattaga ttataggatt atgtaatact ttttttaaaa gttatatatta 360
 aaatatnttt aatgaatatt gataagaaaa ctttacacca gtgtataaaa aataaaattg 420
 taaaaaaaaat tatgaaaata aaatatgca ttacnaatta naaggaaaac ataatattta 480
 tttta 485

<210> 3616
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3616

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 attggataca tccacctgta ttgaacagga ccacctaata taactttggt tgccaagtga 120
 acaggaaagt gaaccattat gtcaaaaaac ttggaggaaa aatcatctct gattgacaaa 180
 gaatttcaat aatttgtgat tctatataat ccaaactctt tacctggatc actntctaac 240
 acaaagagcg aaagaaggat ccaaggtgaa ttaaaagatc aaccaccaca ctaggcattg 300
 tgcttctaata tgctatttgt aataagtaata gtaacatgat atgtgtatca tgactctngt 360
 agccagaata tttgtcagt atatgcatgc attntgaaat atttgttgca ctcccatcta 420
 ngcaattggc atctttcaag ataccacana aaatagactt cttntttgta gtcatta 477

<210> 3617
 <211> 189
 <212> DNA
 <213> Glycine max
 <400> 3617

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 gttttttttg gagaggctgt gtgggacaac attcatgcta ttaaggccat cttaagagga 120
 tttgaattag cttctggttt aaagattaat ttgccaataa gccaatgttg gggtattggt 180
 gatgggtgat 189

<210> 3618
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 3618

agcttgaata gatgtaaaaa atatcaatga aaactcactg cttcaagtga gattatacaa 60
 acttctgaag tctctctcag cttgaagctt caacgacttt aacacgtacc tgctagctgt 120
 atttgcttgt agtggttgaa tacagggttt aatacatggt ttagacatat acatgtatat 180
 ataaaaagta gtaacaatgt gctttacctg tacttgatat aatgaaacag cttccacaag 240
 aacaccaatg gacaaaccaa cttcaactac aacaaagtaa ttcaccttca cctggagtgc 300
 atataatgag taatggcatt agaagaagtc aaagccaaac caacttcaag tacaacaaac 360
 taattcagct ttttctcaac caaactatgt caaactactt gttggctatt aaaagtgtta 420
 gttattcatg tgacgggcat actattctag tttctattc 459

<210> 3619
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3619

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 tttagaagga gtgctctttt gatatcacct tttgttataa aatgattttc cttcttaaaa 120
 atcttcttgg aggaatcctt ttcctctttt tccttccctt tggcctttga agagaaggcc 180
 ttactatcct tctttttctt ttgtttttct agttttttct cctcatcctt attatctttc 240
 atagttagtt gatctttggc cacctgtgaa ggtgtttgag gatgcaacac anatttagtg 300
 ccaagatggg tgagggtaat ctcattagtt aggccatttt aatgatctt cctatcanat 360
 ttccatggcc ttcctaaaag aatatgcatt gctccatgg gaactatatc acaattaact 420
 tcaccctttt atgtcccaat ggagaaaggc acctttactt gttggctaatt tatcatt 477

<210> 3620
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3620

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tgaacactan aaccaaataa aagccttttag catcacatgg gacaaaagtg accatcctac 120
agctgtccta aactgtaggg aaaacaaaaa gtggggtagc acgtaccata gcagtacccc 180
atggactctt aatattggga agtctggaat ctcccaacat tntgagagac tttgggttgg 240
gatggcctag tctaagcct ccacaccgca ctcttcactc tcgctacttg ctagtgttag 300
tggatagagt gtattcccat acccataccc atacccatga tagtacaaac acaaacacaa 360
ctcaaaaccc cgtaaccgct aattaacgtc cttatatatc tcactctgctt ttttttggcg 420
gcacaaaaac cgcttcttcc cactctcctt catccatac 459

<210> 3621
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3621

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ggattntggc tgcagttatg attcttcagg ttttttttta ttaatttcca ccttgtttct 120
gttatgttgt tgatgcttaa gataagcgca tgattgtaaa tttgataaga tgttgtttcc 180
agagttctat ggatcctctg ttgggaacat tggcattatt atgtggatca tttgtctcct 240
tattgaagaa aatgcatagg ttgagattcc ttcgtcattt acgcagggtg gtccacttcc 300
ttgaattttg gaccttatta attntcaaca ataaaaattt tcttttcatt ntttttaatt 360
aagtagaaga acgaagggtt tctttttccc tgcagagggg gg 402

<210> 3622
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3622

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tagcctacaa gaaatgctta ttgtacacaa aaatgacatg ctaatccctc cggtttacaa 120
cgaactcatg tgcacgttta acgaaacaca tttatgcaca tgcatacgta acaatatcct 180
actattgatg tcaacataca aggacaccca acacattcta attgccatac atctatgtgc 240
atcttgaata gagcacacat tctcatgctc aaggcgctgc gtcaaacttt acacctaagt 300
atatcctaaa tatttttctat ttacaaacta cttacacata tttgaaatat atatcatata 360
aattgtattg tttcactcac atttatttat atgcatattg ganaactaat tatatcctgc 420
acacacactt gcattcaaga gggaatttca cgctatcatg tgt 463

<210> 3623
<211> . 578
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3623

cgcccaccct ccgtacacga aaccccgcca cgtcacaccn ncccttnnca gaaaaaann 60
ntttgacgcc tgagaccctg caaacaacnc agcaangaga aacggcgacc cccacacggg 120
gacaaagcgg nttgcggggc attgtgcaca acacgaacaa cagagacacg gagcgcgcat 180
aaaccaccca caccagggg accaccagca actaagcaca cgtagcgcca cgcgggccat 240
aagcgcgagg gacccaacac cggcgcccca ccaatcctcc caagggaacc aacaaccaag 300
gaagccaaca cggaacagc acaacaatc acagccacaa aaacagggca aaggcagaaa 360
actccggcca caacaccaac cagaaacaca gcgtaggccc acgcaaagac cgcagtaaca 420
acgccaacga gccaaagagc gaacccgacg gaacgcacgc gaacaccgac cggaagtccn 480
aagaacacaa gccgacaaag cgaccggtgg gatcaacgac catacagcgc agaacacaca 540
ccgaacaagg cgagacacag cccaccacac acacgccc 578

<210> 3624
<211> 231
<212> DNA
<213> Glycine max

<400> 3624

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ggagctcccc tagcgacatg tgaatgaaat cgccacaatt ttactgctta ctattaagaa 120

ataaggcgcc ggcgggggcc accactgaat gctcccatgg acaattatga acctaaaata 180
tcctatgatg atgatgccca tgcttggact tccatcgga gcgtacgata c 231

<210> 3625
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3625

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aggaggcgag cgacgttatg agacgtttat gtgtatctat tctctacctt caccggaagt 120
gatctcgacc acccttttta acgtatgttc tctcaagaga gcatgatagt gaacctttct 180
gtcctataac ttggaggatg agtcacactc tgatggaact atgatgatag agagtcgtga 240
gagactcata ctccaagatt atctcctgta tctctttctt actccaagag cgagctaccg 300
atccatggtg atctacctgt atcttctacc tcctaggcg ctgcgcttct aagcttctta 360
tgcaatgctc atcgtggcgt ggatgtgcat catgactgtg gtattccata ttggagggcg 420
gctactctcg cctattgtaa tatgtgttgc gctgccttct cgcgggtgtg catctctaag 480
atccgaccta tagagactca ttattctagc tcatagaaac cgcttagct 529

<210> 3626
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3626

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ggtgtaattg tattggtctt aatcacacta cattgacata aagctatgat atttgacata 120
gcttttatac atttttttat tctccatact gaatcggttaa agttagaagc tttgcttttt 180
atcctctttt tgtgctagtt gtcacacag aataaaaaat gtaccagatt attcatgaat 240
caggactcag atttgancta atttgaatct ttagtaagta gttgctagtg ccactaatta 300
ttgaataatt gattttggtt tatctacgtg atttactatt caaacatttg aatatgggtg 360
cagaataaga gttgcaactt ctgatatgag aatgggtgctc tcagttatat gtctcatgtg 420

gcactttctt tctttcttgc atctaccatg a

451

<210> 3627

<211> 116

<212> DNA

<213> Glycine max

<400> 3627

gaatatcagc aaacgtagtt gcttcttagc agcatcctta tataacttttc cataattttt 60

cattcactgc tcatgcgctt acgacatgga tgcctcatgg aggtagcggg acatta 116

<210> 3628

<211> 103

<212> DNA

<213> Glycine max

<400> 3628

ctcctacaag gacgaattct ttcattccac ttttggtatt tccaacactc cgcgaggact 60

atataggtgg gtaagacggt ccgctcccta tcttctctat cac 103

<210> 3629

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3629

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caagatcaat cactagcatt tgtggggttg tacttgcta gaccgatgtt tagtcataaa 120

caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat cttaattcat 180

gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240

aacctttaat aagtatgtcc acaagtgcta ctaattctat ttgtatcaac tataatttga 300

tttacaatac tcgtatatct tatatgcaag tttcctcttg gagtggctgc attatttttg 360

gtccttggcc aaagttacat ttttctcctc tgaaatgtag atagatgcaa gtatcatggn 420

tcttaacata ttgcattggt ggaattatg 449

<210> 3630

<211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3630

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tgctgcaaaa gaattggtga atgaattaat taagattacc gaaatgcaaa ccatagcctt   60
gctcttatag actcttcatg tctggtcaag agaaccatta gaagagttat aacctttaga  120
aaaactttta aaaccatttg aaaaaagtga aaactatctg aagagttaca tcttttgatt  180
ttgttcagaa actatcactg gtaatcgatt accacatcag tgtaatcgat tacacaaagc  240
ttttttgtga aaggatgtga ctctntcaca attaaatttg aattccaacg gtcagacaca  300
ctggtaatcg attaccaaat cattggaatc gattacaaca ttttgaaata atatggaacg  360
ttgaaattca gatgaggcctt ttgaaactat ttggtactgg aat                      403

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<210> 3631
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 3631

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acgcttcac c aagtggtaat cagagcttct gtatcttttt taggtgctcc ttacacctcc   60
attaattttt tttctttacc ttctcttcca ttgttgtttc ttcatttttc tccatgtatc  120
tcctcacatg tcttggttcta aatggttgta acatgattct ttagagtttc caccgattaa  180
acttgctata gaagttagat ttgaatctct atggctcaca tttcttggtc ttgttcttga  240
accatgaatt gcgttgagtt taggttcctt tgagctttga ctagttattt tttgtggctg  300
acacctaaac cctaaaattc ttacaaaaat attaaagca                          339

```

<210> 3632
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3632

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cgaatcggac ctcaagtgtga anagttatga ctcttttgaa tncttctaga gctttcgttg   60
gtcaatgtcg agcatctcga catattatgc gctcgaatca gacatccgtg tgaaaagtta  120

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tgaccatttg aatttctcga gagcttccga tgtttaattt cgagcctctc gacatattat 180
 gcgcccgaat cggacatccg tgtgaaaagt tatgaacatt tgaatttctc gagagcttcg 240
 gatggttaat ttcgagcctc tcgacatatt atgcgcccga atcggacatt cgtgtgaaaa 300
 gttatgatca tttgaatatc tcgagagcct tcgatgctta agttcgagcg gactcgatat 360
 atataagcct gaattgccct cagtgtctaa agtatgacca t 401

<210> 3633
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 3633

agtctttaca tgtcatggat ttactcttcg tttattgctc acgctctcca tgatggttta 60
 taaactatta tagaacatgc ctttctatga cgattattta aaatcgatgt gaaatttggt 120
 acgtttttac taaagatgac tcatttacat ctatgtttat gacggttttt ttggaaaact 180
 cattttgaga gtgtatcttc tctgactgac atatatatat atatatatat ctatatatat 240
 gtatatatat atatatatat tcaccctact aaaaaagtat atagtggctg aaaaccctat 300
 cttataatac acttgttcca tacatatgaa 330

<210> 3634
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3634

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 gttgttataa gaaggtaacc tcttaaata gaataatta ttgtgaaaaa ttagtcagtg 120
 acttttgacg gaagaatccc atgttcaccc actaatattt aagcccaact ttaatcttta 180
 ggaaaaaaaa taatcttaag acaatgatgt tagttaaccg atataagaat gttgtatttt 240
 tgtcaatcaa accaacaatgt acgatagaaa aggatacggg tgcaatgtta ttaaataatt 300
 agttgatctg attgaatatt ttaataattg agggactcaa ttgagctttt aattataatc 360
 aagacattaa ttatatatta agcctttgaa aagtataatg agctaattat atttaataaa 420
 taattaaatc gttggcatta atata 445

<210> 3635
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3635

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 actcctcacg tttgggaata acaccataac taaatgcgcc acaaggcatc cctatcgcac 120
 cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga tgaaagccga 180
 catgtcggct ctgaaagaac agatggcttc catgatggag gccatgttag gaatgaggca 240
 gctcatggag aanaaagtgg ccaccgctgt cgctgtcagt tcggctgccg aagcagaccc 300
 aactctcttg gaaccgtgcg ccacccctcc tcaaacatag tatgacggng aaggaacanc 360
 gctgggcacg acggctgtcg gaccttgccg cctcaataat ctttaagagg ataggcttag 420
 aatat 425

<210> 3636
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 3636

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 aagtgaacaa aaacctgtgg taggcctacg gttgtacttg gaaggcagaa aaagtgatag 180
 acttgcaata catgtacacc acctttcaag cctcccaaac actatgatct actcttcagg 240
 cacatcttcg tggcgaggat ctgatgacaa tgaatccagt gacatcttcc tggaacctat 300
 aaggtggaag ggatttgcaa acgtgtgcac tgcagtggtc aaacatgacc ctacctgggt 360
 gcaagaaaca agtgggtggtg tttatattgt aaccggcgca caactcatta ttaaaggagc 420
 ttggccaaag aatgtgc 437

<210> 3637
 <211> 474
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3637

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tcttttgttt ggctggntat tacttacct aatagatttg gtcacatgtc ttcaaccact 120
aacgtctaaa tttttcttag cgatgatggg tttcccttaa ataaattaat actaatacta 180
tatgatacta tgattccaat atggacagag cttttgggtc tatctccaag ttcccccgat 240
gctgctatct tcacatcaaa ttcttcgaag acaacacctt cagcacctac aacaacaaac 300
tcgcatacca cgaccccgca gagccaaaac gcttctcatg gaagcatggt tcaacctagt 360
agtaccgtta cctatgtgat ggtgatggct ntggccattg ttctgggtgc agttccaacc 420
gatactgtga gcatttatac atgatgcggc attatgccac tgtgaagaca gttg 474

<210> 3638

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3638

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actcggtagag ctcacagagc tctccacgt tttttgaacc cccatgaggt ctagacttca 120
cattaacatc gctgcttcca gcagtagctg attgtttaat cataggcaat tttgtacgca 180
aattaataaa gaacatactt gcctctgggt tgtgctccta ccaacaattt gttcaaaaca 240
ctattataat aagtaaaaga agttaacatg ataaatttaa attcttgtac tcaccacaag 300
gtcaagctcc attgctgaat atgatgcatt ttcatacataa gctcttggct ctgcagcctc 360
cccatattct tggatcatca gaagagctat cagaanaaaa catgtgaagt taaagtcact 420
agcccactag atattgcaga gtatacata 449

<210> 3639

<211> 165

<212> DNA

<213> Glycine max

<400> 3639

ccgaagatgt tagctgtggg ttaagcattt aagattcaga gcaataattc tgtatagttc 60
 ggtcagcgac ttaagatttc cgctgtttca ccatggattc atgggtccgc acaaggatga 120
 gcatggatag agttctttac gactgaataa ctgaataacg tggtt 165

<210> 3640
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 3640

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 aacgaatgaa gaacgggtga aacctttgcg agattcctca cggaaaacgt tacggaaacg 120
 tttcgggaagt gcctcggctt agattttctt cacggaaaca atttttccaa gcaaattcga 180
 aggagagaga agtgccctaa gggctggacc cttttcttct tcatttcctc ccctatttat 240
 agcaaaatag gggaggtggt tgccgcccag ctgcccagg cgagctcagc tcgcccaggc 300
 gagcaggggt gcttccttca gaagcaaccg tcttctggag gaatattcca gagggcccaa 360
 gtgggcctgg gtgctatt 378

<210> 3641
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3641

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 tttttatacc ccctgttgac gtgcttaagc cattttactt aagtcgtttc tcgcttaact 120
 tagaaataaa ataaatttcc accgaacgtt tgaattgtat tatccattaa cttcgggttaa 180
 aataaattcc gaccgctcgg tcatgccgta accacgttgg aaatcaaaaa agaggtaata 240
 aataatatta ataatacaaa aaataacatc ttttagtaaa ataaagcgga aaatcaatcg 300
 gacgttttct ctttggaat tctcattctt aatcgaattg attaataact aaagtgaac 360
 taaggctaaa atcaaactgc ctagtcaagc tctgtcacia aaatagggct ttgaagtccg 420
 tcatttcaat cttccactaa gtaaaatgga tca 453

<210> 3642
 <211> 208
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3642

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 tctaaaacat tntcaaacta aataattgag actcatcaat acactcatcc acacgctgaa 120
 tttatgatcc atatcatcaa tgaaacttga gttaagtgcc ttttattttc tactactact 180
 gtcttctata cactacacgt ttcactta 208

<210> 3643
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 3643

gctgacttat taagatgatg acaaagggtga tgaacaaaaa actcatagat caatcaaaga 60
 acaactctag tgaatcatag aacatctcaa gtgaatcaag aacaagtcta gagttcaaga 120
 taagaatcaa gaagaattca agactcacga agaaagtcta gagtcaagaa tcaagattca 180
 aggttcaaga tctcaagaat caagactcag agattcatga atgaagagaa gactcgatca 240
 agataagtat taaaaagttc tttcataact ttgaatagca catgagtttt tgacaaaacc 300
 ttttaccaca gaggttttac tctctcataa tgcattacca tattggttga atgcgatacc 360
 agtagcaaaa tgagtttgaa aaagttttca aactggaatt acaacgttcc aattattttc 420
 aaacggctta atcgatta 438

<210> 3644
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 3644

agcttatcta tttcttttga tgaacttcaa gattcatttt taacttgcatt aaagaatctg 60
 tcaaacttgc caaattattt tcatcttcta agaaaactat tttaaattta gaaaagaaag 120
 ttttgaaatt aaatgtagaa ttataaaatc ttaaagcaga agttaaaaca ttaaaaccaa 180

tagatacaaa ccaatcctct actaaatggt taatacaaga tagcaatgaa gcatctcatt 240
catgtaaata ttgtaaaata tttaaagaag aaattaaaga tgtaaaagat tctctttcca 300
tacttactct tggcaaaaat aatttatata ttatactagg aaaacatata tgtgtt 356

<210> 3645
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3645

tagaaagaca aacattatgn gaagnctgnt ttactttatt atgcttatch taacacagag 60
atgacatgct gatccctcca atttacaacg aactcatgca cacttttaat gtaaaatatt 120
tatgcacatg cgtatatgta gaatattcta ctatttatgt tatagtacaa ggacatccaa 180
cacattctaa ctgtcatata tatatatg 208

<210> 3646
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3646

agctnnttga anagacacat ctcttcttan atttttgaaa aggcacgaag gacctatata 60
tgtgtgtgtc caatttcaaa aagcaagaga tagatattcc aagaaaactt cattgtcaaa 120
tgctctctca ataactcttg ggcaaact tgcaaacta ttgagagttc atccaagaac 180
ttcaaattgt attattcact ctaaaggaga ggaatctttc tgttcttctt agaaagtcaa 240
ttgtaatcaa aagactagtt gtctcttgaa ttatgagttt cctgaacaca acggaaaggg 300
attccttgng tgttcaaaag ttgcaaaagg gttgtttaca aagatagtgg aaaatctcaa 360
gtgggttgct tgaggactgg acgtangcac gggaagcggc cgaactatga taaatcgagt 420
ctgcatatct ctcttccctt atct 444

<210> 3647
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 3647

tggttgccaac atgttggttaa cctgggttttc attttttttgc cttcttttctg caccacacctt 60
 ccttctcctt cgacacacaa gtnttgcttc gggatccacc attggcttat ggttgaagtg 120
 ttatggatca attgtagaca tgtctatagg ggtccaagca aaaatattca tatttttctgt 180
 caaaaagtga gatagtttct ctaagatagg cggngggaac tcagatccta ccttgacaat 240
 cttcatctct tctgggtccga ttttactta cgagagctct ctttcaggaa ttgggtctttc 300
 gtgttggtcca ttatgctcct tgggttctaca atccaattct tttatcagaa tctattattt 360
 gcctgggatc aaaactagct tcttaaacaa agctg 395

<210> 3648
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3648

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 ttaacctagg gaattaaaaa aaacttaatg gctgagtgt attgaaattg tggcaaccaa 120
 aagtcacccc caacagccaa caagtcagcc accatttggg ctcccaaaag gctgatgcct 180
 aggttgccaa ttgggccctt attataactt gaactaaacc taactaaagc ctttttagtt 240
 gattaacca aaacatattt ttgggtcagcc aactttacaa ggattggggc attatttaga 300
 caaactaaac actctaaaat tgagacaaag tgggtgcatt tagtctcct ccatttgggc 360
 catgatacaa ctcacaacct tggacttttc tccttgaaac ttgngcttgt attcaaatag 420
 tatggaca 428

<210> 3649
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3649

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 tcttacaat agattagaac cttttgaaca ttttacatat tttttacatt cactttcagt 120

ttataatcgc gtgtntttctc tctttttctct cttccttctt catgacttta cattcttata 180
 ttcttcattg gtcttccatt gttcatggca ttcattgtaa gcatgtgcaa ctaaattctt 240
 agttgctgga ataaaacggn gtagatttag agtatgtgcc agaattcttct ctttctcaat 300
 tgcaatccat ttctactcct ttgcttcatg tctatgctta ggcttgggtca acctacatta 360
 natatacaaa ttcaagggtt agatagaaat tcatctagtt aggggcattg cnttggggcac 420
 ccagtagttn tactg 435

<210> 3650
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3650

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 aagcccgttg acacgcggtg atttacgtca tcttccgcgc tcacaagatc tgtcatactg 120
 acttttgagt cacaatgacg ggcacaaata cacgagtggg tctccttata aactttttgc 180
 tgtctgtaag acgaaaagca tgatagcacg catagactaa cgtcgtcttc tgcgcccttc 240
 gtcaatcgcg gccgacaagc ccgttgacac gcggtgattt acgtaattct ccgcgctctc 300
 aagatctgtc atattgactt ttgagtcacg ctgactggcg aaaatacccg a 351

<210> 3651
 <211> 409
 <212> DNA
 <213> Glycine max
 <400> 3651

cttaagtcca ctgcaggctg caagctttct ctgattactc tgctagggtt tttagcatta 60
 gagagaaggg aaaaagatta taaccttcat tgcatagtct ttgtgtgatg aacaattatc 120
 caccataga tattatTTTT caaatataac gatgatccaa cggttaataa gtccggaatt 180
 gtagttttac taggaaagat ttgggtgtgt gtgggaaaat gagaggtagc tgtggggggg 240
 gtttctttca ccataagcat tatttcacaa attctaattg tggggatgcg tataaataag 300
 ttccaaactt gatattagaa ttgcacgatg atccacaggc taatgaatcc gagatcattg 360

ttttaatgag ataggcctgc ttgtatccga tcaatgtctc tctcatttg

409

<210> 3652

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3652

ntgagacctt`tagccttgag nactgacaac acacacagcc taaaagggtat atacttgaac 60
aacattttgc agtttatcaa atatttacga ggcattggcaa ctcaagttca aacatgtgac 120
atggccattg atgctacgtt tagaaatata cttatagcta tgttatcctt gccatgtatg 180
gtgataacat cgtgattgca cgatgtagta tgacagagat taacacgttt gagcagctct 240
tggcacaaaa ctcttaaaag aatgatcctg gtccatctaa aataatcatt ggtatgagaa 300
ttcttagact cagaatagaa cgaatttctg agatgcctta tgagacatat atacacaagt 360
tgcttacaag ttaccttgt agatttagac cagaatagcc tttggattca ttgaagtttt 420
gaaaagaatc tttgctacag ataacaaaat gtaactgtag atgccttgct tagccg 476

<210> 3653

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3653

agcttatccn cacaagagtg cagaacatct ggtgatgtct gcattgatta taggaggctg 60
aatcaggtaa ctagaaaaga tcattttccc ctgcctttca ttgatcaa at gcttgagcgc 120
ttggcaagta agtctcatta ctattttctt gatgggtttt ctgggttattt acaaattcat 180
attgctcttg aggatcaaga aaagaccaca ttcacctgtc cctttggcag ttttgcctat 240
aggaggatgc cctttggcct atgcaatgcc cttggtacct tccagcggtg tatgcttagc 300
atcttcagtg attttttaca gacttgcat 329

<210> 3654

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 3654

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ctataaaact aagctttgcc tcnaacatat tatttccaac ttccaatgct ctgngaatacg 60
attacaaggc aatgtaatcg attaccagaa gacaattttg aaaaacaact tttaaaaaag 120
gttttgaatt taaattttga atcatgtaat cgattatcag atgtttgtaa tcgattacca 180
acaacggcac ttcagtaaac actttgaaaa gtcatgaccc ttcaaaatat aattgtgtaa 240
tcaattacca aaaacctgta atcgattacc agtgaagagt tttaggaaaa atcttttgaa 300
aagacacatc tctccaaacc attttgaaaa ggcacgaagg gcctatatat gtgtgtgtct 360
gac 363
```

<210> 3655
<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3655

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ccctccccc cncacccact cantctttna ntgncgtcac acgttgggng aacacgnnnc 60
gannnncagt ccccccaacc acnnnttttag tegtgtgagg cgctgcacna ccgcgnancg 120
cnagaacgac ccgaggcaag cagacccgac ggagcagaga tcaatcatcc gtttgtcatc 180
accacacaag gggagaaagc gagtgaatga agacacgacc ccgacgccga cgaaagaaga 240
accaaacacg acccacggtc gctgcacaga acaacacaaa accgcccccc caaacaacgc 300
ccagagcgca gaagcccacg cgaccaagcc gtcgctcaca atgaaaggac ncaagccaga 360
caaggcacat cgaagcgaat acccccacag gcaaccgccg accaacggcc cgaacacgca 420
gcagccgcta caccacacaa gccaaaccact accagagaca caciaagcgg tgaaacacaa 480
ccctacacca agcggggcaa cagaccacga caaaccacgg acgaaccac cccactcacg 540
cgacgggaga ccaccacgca aggcgcgaca nccgcaaaca cgcgccgcgc caccacgcc 600
c 601
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<210> 3656
<211> 252
<212> DNA
<213> Glycine max

<400> 3656

agcttattaa cattaagggg tgtgattctg tattcttata gcacgacctt gataaaacac 60
tcgttgacgt atttatTTTT ttggttcaat tttcactcgc atattatcct attttcagct 120
atgccgtata ggctactgaa ttatatgtac gggttctctt ttacatgttt gacaattgag 180
actggataga ttattctatc agggccgatg agtgaaagtt tttcacactt atttgttgct 240
gagcacctct tg 252

<210> 3657

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3657

ttgaagacct gtgtgagcat tgatagtctt gtaganacnc gcacatagac aactaagcgt 60
acaaagtnga gaagaatatt ctanagccac tattaagaat acatataggg tacacaacaa 120
ggtaatatac ccagctactc ctcaattata tatatataag cctcaatgca acccctcaca 180
tgttacatcc aacccttgta ttattaagaa gaggaaagac aaacttatat tatggtaaga 240
gagataacca atcatacaag ctagtatgta tatgtatcac gtaacatgag ctgtgaaaaa 300
agaaataccg tacctgaac ataaagcgta taccagaata tcgctgctcg tgaaagacag 360
acatcttttg ctaccaactt attatgctaa ttatataggg cactccgtca agaaaaagta 420
cagaaatgat tacttatcga tggatgtaat cggttcgagc aatgagctta aagcaagtgg 480
ccttctagag caaacctaatt attatgtccg 510

<210> 3658

<211> 345

<212> DNA

<213> Glycine max

<400> 3658

agcttgtaga atggctagac atgatacatg tcttggtttg gtttgtttca aggataaaag 60
ggatgcccc aattatttcc atgacacaaa tgcaaaaatg atgatttga aactttatgc 120
aaaactggtc atgcatgcac ctatgcgaac actcaagtgt caaatTTTTA tggtcatgtg 180
atgctagggc tcaggattcg tttcctctat tttaatcaac ccaatgtttc caaaatatgt 240

tcttttatca atttgtgcat tcatccgagt ccatttcggg cgtccgggga aatttcacag 300
cattcacctc tcaggtgata cacattttca aaaattggta tgatc 345

<210> 3659
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3659

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gtatgtatac atgattntga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120
aagattaata caagattatt tcaacaaaca aagtcttgat tcaagatttc ttcaagatca 180
agccttgccct cacaatgaaa ggtttcaagt cattcaaggc acatgtaatc gattaccaat 240
acatgtaatc gattaccaat ggtttgaaag tggtaaatcg attacacatc atatgtaatc 300
gattaccaga gactctgaac gttgggaatc canattttta atgaaaggctc acaactgttc 360
aagaaaaaca cctgtgtaat cgattacact aattctgtgt cgatatccaa agaggattat 420
caacgtatgt ctntccagt catatcc 447

<210> 3660
<211> 210
<212> DNA
<213> Glycine max
<400> 3660

cgcacatcgt tcgagcgac gacatttcac ttacaagga gcgaagcaga ggagaccttc 60
gattctatta ctaccgcga cgcacaaaag tgggcagtta acttgaacgg tcattattgc 120
caacgcggaa cgcattctgc gcttactat ccattgttcac atattattgc agctcgtggt 180
tacgcgcgcc cgaactacta ccaactctata 210

<210> 3661
<211> 382
<212> DNA
<213> Glycine max
<400> 3661

ctcaagctag agttcctcac gtacagtaaa gtggcaaaaa aatttcccca ttaatataat 60
 tgtcctatac aatcgactg agcaactata tcaccgagac cttcgcatca ttgcatgaca 120
 tacttcataa atatgtgagt tagaataaaa atgttgact ctttaaggggt tactgctggc 180
 agccaccata ctgaccacaa tatccatctc tatgtgatgc acgcgacca cacttaagtt 240
 tttacatgca aaccatccaa accacatggg caggtacaca cttaaacaca atcacacaca 300
 ttggaaatat atgaacgatc aaaatggaga aaatcaaat ccgaatctgc cttataacat 360
 ctggcacaag tctttgcttt ga 382

<210> 3662
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3662

gtcacctgcg gcatgcaagc ttctcttgga ccttaggcaa accttcagct catccttcat 60
 tatcaaactg nctactcgtg attggtcctt ttctctctc cgaagcttaa gctcactggt 120
 actgccccac agagcccctc ggaatttggt cgggccgtgt tcttccctac gagccctttt 180
 ggtctcttgt tctaaggcct tgggtggtagc tatatttaca tctctcagtt cggcattctc 240
 ctttcggatc ttaagagctg ctgatttgaa cttttctttg actgtttggg cttgctcgag 300
 ttctgctcta agggcctgca cctcttcgtc ttctccggt gcctcaactt cctccccttt 360
 agtggttctc aaactcggga gccaatccaa accttgcagc tgggctttca accacttacg 420
 gtagctaccg acgttggttac tgccctctgag ttctttgtcc ttcttttgca ccat 474

<210> 3663
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3663

gatgaganag tgtagaacgg tgaaacttcc tgcttttatt tgttgaccac atagtggttt 60
 ctggagatat gtncgcgggg tcaagagacc ttgtggacgt cagggtgggt gctattgccc 120
 aaaaccaagc ttgaccaatc ccgacccaac ccatgcatag tcagtcagtg agaacctgtg 180

atgtacctaa acaggcgagc tcctggaagt caacagataa aaggaaactaa gaccacaaaag 240
caaggaggct tgtgtggtgg ctggccagct gtgaactttg tgtgatatat gggttattgc 300
ctctagtaat cgattaccaa gggtgagtaa tcgattacaa gcttataaat gaacgcagga 360
ggctaagatg gtctctggta atcgattacc aagggtgtgta atcgattacc aggcttgaaa 420
acgaggtcac gaagcta 437

<210> 3664
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3664

agctntgaag agtgttgtnn ttcaccttct cgctaagttt atatgctggc ttagcgagct 60
tctgctatgc gcaacactca tgggctaagc gtgaggaaga ctctggaaga agatgagcta 120
tacaggttca ctaagcgcac tgcttcatct cactaagcgc accgcttcag ttcattccgct 180
aagcgagaat ggcacgtgca agccaaaatt cactattgtg tgctaagcgg tccataattg 240
cgctaagcgc acgagcacga acaaggccac ctattttaagc ctgaaatcag attttagaag 300
ggagtttgga ctgggattca gagctttgca tgtctagagt ttctagagag agaaaggctcc 360
aagttccaga gagttttgag agattttgct gtgtgaagat ctgcagagac cagagcttga 420
agcaggagcc gatttgagag ctcgagatga gtttgtga 458

<210> 3665
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3665

tgctctnatt tacattgatg tttgtattta tgggaggagg ttatatgccca tttttgcttt 60
aagagtaatg tcccacaaaa actaactttc caaatgtttg ccttcgcagg aatggcacgg 120
aggaagcttg cctcaaagag gtccaggaag gacaaggcgg ccgaaggaac tagttccgcc 180
ccggagtacg acagtcaccg cttaggagc gttgtacatc agcagcgctt cgaagccatc 240
aagggatggg cgtttctccg ggagcgacgc gtccagctca tggacgacga gtatactgat 300

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3670

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gtgagaacct gngatgtacc taaacaggcg agtccttggc agtcaacaga taaaaggaac 120
aaagaccaca aagcaaggag gcttgtgtgg tggctggcca gcggtgaact tggattgata 180
tatgggatat gggctctggt aatcgattac caaggggtgg taatcgatta caaggcttaa 240
aaatgaagac aggaggctaa gatagtctct ggtaatcgat tacattgaaa acgaggtcag 300
gaagctaggg gagcttcttg taatcgatta ccaggggatg taatcgatta ccacgcttca 360
caagagaact ggaagactgt ggagacctct ggtaattgat taccagtctg tgtaatcgat 420
tacacagagg gatgtgtcac t 441

<210> 3671
<211> 434
<212> DNA
<213> Glycine max

<400> 3671

ctcagcttag atgggatcat tgaaaaatag atatatcttg atttctttaa tgtttaatga 60
atactctgat attgatggtc ttgatttatt ctcaaatg acagtactaa gagaagtgtt 120
aagagaagaa attagcacac caatagaact attgagttat attaaaactc tatattcttt 180
tccaaatgtt tacattgcat ataaaattct attgacaatc tttgtaacag ttgctactgc 240
tgaaagacgt tttgaaaaaa agttgttcat aacatacaca gaataaagat gatctatttt 300
gcatctaaat tatatttaaa taaacggcat attaaatgtg tacatgttaa ttgaagcatt 360
caaataattg gtgttacgag agaatgagaa gagaagtgat aacttggtac ttcaacgtgg 420
agcctaagaa tgta 434

<210> 3672
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3672

tatttagatt ctgaatatgc ggctgaactg gttcaaaatc aaccacacca acattgtctt 300
 ccttggggtg agacttcttc accttatcaa tgtcttgaat ggtttgggtc ttcattgaatt 360
 tcacatcacg gcttctgaca agcttcttct caacaggatc atataacctg taaccaaatt 420
 cattctcatc ataaccaatg aagatacatt 450

<210> 3675
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3675

ctgttgcaga ggtgcccaaa ccttatcttt gatcatggng ctcaaccgca taagttctat 60
 agtggtttga gatctcaaac ccagatgata cttgatgcct caactagagg cactatgatg 120
 tccaagagtt cggaggaagc tattgccatc attggctcca tatcagctag cgattatcaa 180
 agacattatg atagagctcc aactaaaga aaaggtataa tggaggtaga cactcatagt 240
 gcaattctag ctcaaaacac actcttgacg cagcaaattg aggccttagc aaagcagata 300
 gccaacgttc tcacaatatt accaatgtgg accacaaaaa acacatcaag ctcaccaagt 360
 tcaacaaatt ntgatatgtg att 383

<210> 3676
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3676

agcttcattg cttcatgatg ttgaatttag attgattcaa ggngctctga tgataacaaa 60
 gatgatggca aaaagcccat gagaatgatt tcaagattga gtcaagaaca attcatgaat 120
 ctagagaaag attcacgaga agtttcaagt ttcaagtttt caagaatcaa gaataatcaa 180
 gatcaagatt caagactcaa gattcaagaa tcaagaaaag gctcactcaa gataagtaca 240
 aaaaagtttt tcacaacatt gagtagcaca tgaagttttc aaaaagctt ttaccaaaga 300
 gtttttactc tcgggtaatc gagataatca attaccggtt tactgtaatc gattaccaat 360
 ggcaactttt tgtttcaaaa agctttcaac tgtgattata acgttccaat 410

<210> 3677
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3677

tgtagccct tanncttgaa ntcctgaana cggacacaag atactcagct tttctatata 60
 taggcgcac tatatgtact ttgacatatt atcgccggag cttcacggtg cgtgcgctga 120
 ggtctcgaga ctgctacaac acttaatgct cgcatttaac gaacagtcct tcttacatgc 180
 cagaaccatg cttgataggt aacgcacgct ttggacttta ctaagaaagc cacttattcc 240
 atataatacg tacgcactag caaatcatgc cttttgatga agaaacatat ctatcacact 300
 gcagacttca cttacttctt catagaactt tgacatatcc caggagaatg ttttatgcc 360
 gaaagacact tacacgccga ctattatatg acgatcttaa aagcactccc taatgtaatg 420
 ctgaatgcct atatggacgt gtgttcgaaa ctgcaccgca gaatcaaata atgatcgtaa 480
 cacattcctt accctaattc tcg 503

<210> 3678
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3678

gctctgcagt tgaccttcag cttcttcnat tgagcaggac gaccaccttc atcagtggat 60
 aacacctcat tctaaggctc ataatgctct tctctatcct tcttctcttc ctcataatat 120
 tegtccgagg tctcatgaaa aacgtcataa tctaattggct catcaaaagg gtctctctct 180
 aactctctca ctttatgcta aggggatact 210

<210> 3679
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 3679

agcttcgaca ttcaatatcg agcgtttcga taatttactg gacttaatca gacatccgag 60

taaaaagtta ttgtagtttg aagttgctca gagcttcaac attcaatata gagcgtttcg 120
 atatattacg ggactaaatc agacatcaga gtaaaaagtt attgtcgttt gaattatctc 180
 agagcttcgg cattcaagtc cgagcgtctc gatttattac gggactca 228

<210> 3680
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3680

actcaagctc tgaggaactt canacaacaa caactntnta ctcggatgtc ttattgagac 60
 ccgtaataata tccagacact cgaaattgaa taccgaagct ctgagcaaatt ttaaacgaca 120
 atacgttttt actcgtatgt tcgattgagt cccgtaatat attgaatcgc tcgaaattga 180
 agaccgaagc tctgagcaaa ttcaaacagc aataaatttt tacttggatg tctgattgag 240
 tcccgtagta tatcgagacg cttcgacttg aatgccgaag ctctgagtaa attcaaacga 300
 caataacttt tttcctcgga tggctgattg agt 333

<210> 3681
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 3681

ctaagtcacc tgcggcatgc aagcttgtaa gagatctgaa cagaatatta gaatggattt 60
 tatttgataa acacccaacg tgttatcaaa tacttacaaa aagagagcaa atgtagatat 120
 gatacgagtt tatgatatga ttgaaagaca gatatagaga gagacactgg aggtgctggc 180
 gtgctgttcc attgctcact attctcctg ctatctctcc catcacttcc ctgctttaca 240
 ctgacgtcc ttattctccc 260

<210> 3682
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3682

cagctctcct atttgctata aagggatgaa gcgaaaagat aatggtcatt cccttaggca 60
 cttctctctc tctcgaaata gctgaggaaa attagttccg tgaagaanat ccaagccgag 120
 gcgcttccgt aacgtttccg tgagtaatta cgcgaagatt ctcgaccgtt cttcaagatt 180
 catcattcgt tcttcgtttt cttcagtctt cgactggtaa gtacctcaga ccaagctctt 240
 caattcattc tatgtaccg tg 262

<210> 3683
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3683

catgcaagct tgttngcag aacaatggga atctngccta tttttttgct ttgtcccatc 60
 ctgnctactg agatgaatcc tccaataaat ggaagctnnt gcggttagtg ctcgtttaga 120
 ttaaccctta tttatttatg agaaatgctc tcttgttcaa caactaacat tttgtcttta 180
 attgcataac atatgacaac tagtggtgga agtttcatgg acacaaattc ttgatgaaac 240
 tctaactttt ggaaagtttg tttgtctgag cctttgttag ctactaactc agctaactat 300
 gggccatcct ttgatttatc tacgggcatg catatgctta gactatgcat ttaatttgga 360
 aatatactga atgctccaaa ttagtatgtg ctatctattg cacaaccagc attcgtgtca 420
 taaatggtga aattccaatt agacaagctc gagaatat 458

<210> 3684
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3684

ctacagaatg tgtacaaaga tgtctgcaaa gatatttgat ctctttaaca agttgagaat 60
 gaatatgata gatattcact cgtaaacttg aaggagtg tgcatgttct tttttggact 120
 gagtgagtgc acgttctaata aatcccacgc acattatttg ttgtataatg ttgtaattat 180
 tgtaaaactag aacaactcta tgattaccat attgctagac atatttttag gaaaataatt 240
 atgtagcttt atatgaatta taaagaccag tactatttaa aattattaat aatattggat 300

agacctaaact ttggggccatt ttcattactg tctcaatcaa ggagaaaagt ttanagaaaa 360
cagttgcact tctggacgca tgctggtatc tgtattggca tgcattattat tcaacattgc 420
atttctaaaa tgcaggggaa taattgotta acttatatat t 461

<210> 3685
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3685

agctngtcca taagctctct ttcattagtag gatgaaattt gtctcttcct aagggcactc 60
ttaagatcat tcaaatactc tactggagga tccccatgaa tccttcgttc cctaacaagg 120
gaagtccacc aatagagggc atacccttga aagctaaggg tagccaatgg aaattttctc 180
tctttgctaa tatgatgaca agcaaagagt tgttcaacct tcatttccca atctaggtag 240
ggctcaacat tatctttttc atggaaatat gggaggctaa tgttaacctc ttgaggccgt 300
ctatcattnt ctcttctttg ggaatggtgt ttagtatgtg aactatggtg tcctctataa 360
tagtcgctaa gttcttcact taaactcttg caagagtcac gattgctata ggagacatgn 420
ttttttcttt tcatttcttt cattattttt cttctttc 458

<210> 3686
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3686

actcaagctt tgtagaagtg ggctactcta ttgaagcaac aatggaagat ttctcacaca 60
atgatcttag ctcgagattc tctcaattgg aaggctttga catgtcttca agattctcct 120
tgttgctctc ttaaagcttc aatgatgact attgaagtgg aggcactca actaaaaaac 180
ttatggaaga agcataaaaa ggtgataatt gtcgagtcac gacagctagt agagtcattc 240
tgagattgtc attatgagga gaccttttta tgagctttct aaagatacat caaatggtg 300
attctaattg taactgagaa aagatctatg ctgaagcaca tccttttgat gaagtacaac 360
tganatggct ctctgaaata acatagcttc atcatgctta acacatcttc acaaagcatt 420

ctaaattagt ttgcatcata aatagaaatt gaaggaacag ttattagtct gttggtgtct 480
a 481

<210> 3687
<211> 173
<212> DNA
<213> Glycine max

<400> 3687

agctacttct gtgcagtgtc tctctttata tattcaccca tcacagcatg gcgcttcct 60
tgcgcaatat gcacattcag ctcaaatcca tgaaacgaaa cacacattgc atcgtaagca 120
agcattctat acaagacaag gcattcggcc attataactt actaagaaat cta 173

<210> 3688
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3688

agcttgtaga caacactgcy gctgcatant tctatgctga cctttaccaa cctccgtcac 60
ccttggtgcc caaattcctt tgatctctaa gtacatcagc caatacacgt tccatttcca 120
aattctatgt aaaataactt cttgcttcct cattatTTTT tcttaaaact attcttttgt 180
ctgtcatttt ttcattagat gactccattg aagttaatgt cacttattca acctgcacat 240
aacaaatatt agatataacc tactttattc atttgactag tccactgcac aatcatagaa 300
aatatttcaa gcaaagtttt tatgcaatag caaagtacaa aatattgtat cttcaataga 360
taagtacaat agtaacaacg cacacaaagt ttgtctgcgt tagcaaatta caattaaaag 420
agaactattc ct 432

<210> 3689
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3689

agcttgtcca gcttcccatn tacttctctc atataatcag ccacaagaaa cctttntaac 60

tcttccacta ccgctcgagc tttacctata tgtgcaatca tatcatggct gatctgtttg 120
 agtgtagcaa ctttttgggt tgcataaaaa aactttcaat attattggca aatatctctt 180
 gggccttctt cctaaaagag caacatgttt tgaatgatct aaggatttcc aaaacatccg 240
 gctcaacaga ttgccacaac acaacacata gttgaaagtc aagtntttcc cactcagatt 300
 tcttggtgtt tgggacagca ctagctcctt tttccaagtg gtcattgatat ccttggccaa 360
 gaaaccacaa ctccacttag gcagaccaag aaaagtagtt cttcccagtg agtnttgcaa 420
 tagtgatggg ggnggttcta gagaag 446

<210> 3690
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3690

tatacanaag aaaagtatgg atcgtgggtg cttgtataag tatatatgta ctcaacaagt 60
 atgagaataa ggattaaaat tgttactcgg atgaatatga gtacaagtat tgtttttaa 120
 cgcggtgata gaactggtaa ttttattacc atattatttt taaagtagat tatgagaagg 180
 catatgattc ggtgagttag aatttttttt gtatatattg aaaagattgg gctttaatga 240
 tacatggatt aaatggatac atgggtgtct ttcactctcc ttagtctatt attggcaacg 300
 gaagtccttc caagaaattc atgcttcaac agggtttaag acaaggtgat tctcttgac 360
 cttttctttt tacaattgta actgaatgat taagtggcat gatgagagag gtttgatgata 420
 aaatcttttt gaaaattata acgtgggaga gaaaaagatt gaatatg 467

<210> 3691
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3691

agcttcatta gttgttgcatt tntagtatta attcctctta tggaagaacg ataaacattt 60
 cttgcattgt atacttgtct gattgttgta taactattga catcgtgctc ctttaacggt 120
 agaagaatat ttcttggttt caccattgac tttgtaatat cagcaataat aatcttctca 180

tccttagtca atcgaccaac atatggatgt ccaactaatg acttgaccaa ttcattgattg 240
 tgacattcac acattaaactt caccattcat cctttgcctt ccaccactgg ttttacacgc 300
 agcttaaagg cacaccaca ttttctact 329

<210> 3692
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 3692
 tgagctatga gaagcttatg aggacctcct actctcttga aactcgaagc taatagtctg 60
 cgcggaacga gaccgccttc tttcgacggc caaccttgat cttggagggc tggatggagg 120
 actctgacct tgcaacatga actcgtccaa tatggtcac accaaggcca ctctcataca 180
 tcatatcatt cagactctta gacacc 206

<210> 3693
 <211> 243
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3693

agcttgagat gaggaagtgt cgaaggggtga aattttctgt tnttatagnc gaccacagag 60
 tggtagcttg agatatgtcg cgggggtctg gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatccga cccaaccggg gcatagtcgg tcagcgagaa 180
 cctgtgatgt acctaagcag gcgagctcct agcagtctac agattaatgg aaaacaggac 240
 cac 243

<210> 3694
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 3694
 gtaaggcctt gctctgtttt ttgcacttta ttgaacttta ggagagagaa ccttagatga 60
 agtttttagat ttttagggac ataccggtt acaagcagtt aacattctac gacttttcac 120

atagtttgca gtatatacat tgaactgacg gttgtgcatg cttgatatgc ctgtttgagg 180
tcctggaaca caaggaaaac aagcatgttt ttctgcat 218

<210> 3695
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3695

agctntttga gccanaacct caactcattg gttataaacc ttgacctagg ataagaattt 60
ttcctttttac cctcgggaaga gggaacaaaa ggatctccca agaaagaaga tccattcaca 120
gttaagctga aaatgtgctt tgaaagcaaa agagaaaaaa gaaagggtccc gggcaaaggt 180
tggaagaaag caaaagaaaa ataaagttcc cgatcaaaga tcgaaagata gaaaagaaaa 240
agaaattccc aatccaagat tagaagaaaa caaaagaaat atatagaaag gtctttgacc 300
agacaatatc tgaataacat tcaggattgt cacaacaag aaaaggaaag aaaggaaacc 360
agagctggtg acacatgaag cagtccccctt ttgattacca accaaaatcc tttgcgttga 420
caactctttc accctacgct aaacataaac aaa 453

<210> 3696
<211> 257
<212> DNA
<213> Glycine max

<400> 3696

aaaatggatc attattaagg tccaacgcct tataatgatc acctttcaag taaaaagaat 60
cacttgattc acgcataaga aagaactacg taggtctgat ttcctcctcg atggagggta 120
cgtaggagca aaagccccgc ttttgtcgac ctcaaaaaat aaaaagaact aaaagttaag 180
ataacacaat ttccataatt ctgagaaata ggttggtgtc ctttgagaca cacgtgagag 240
gtgctaatac ctttctc 257

<210> 3697
<211> 134
<212> DNA
<213> Glycine max

<400> 3697

agcttgttga gggctctctgt tatggcttct aattgtcggg acaacagctc gatctgagct 60
aaggctcgcat cttgagtggt gagtcctaga aggccttctct ttgttggcgc atatgtgcga 120
tcaggaagaa tggc 134

<210> 3698
<211> 330
<212> DNA
<213> Glycine max

<400> 3698
actcaagctt ctattgcagg aatttcatgc ttaccaacc ttttgccata ttgtagtcac 60
gaagacctta gcaagggttac tggagatctt ctcgagcagc tcacttcac aggatgttcg 120
cacattcatc gaacaatgcc tcgattgtca acataccaat tatatcacta ggaaaccaag 180
gggactactt gcacccttcc ctataccaac tcgaccatgg gaagacattg cactcgattt 240
gatcgtggat taaccatata ctgggggtat tctatcatac gtaggtatta ttgtcaacgg 300
aaggcctttc cagatattca tgctttaaca 330

<210> 3699
<211> 396
<212> DNA
<213> Glycine max

<400> 3699
agcttctact gttgacatga tatgttatac aatctgtgat atttctccct taaagggttc 60
tggtccatga gccagtagtc ccatttaacc catgcaattt tcttctgac aaggctacca 120
ccccataaga acctcctctg gattagcccc gattgctatt cccaataag agaaaggcag 180
aggcatgatt catgcaattc aaataactgg cagcctgcaa tttccattgt tcagattggc 240
ccagcaccac aaagctgctc ttcccataat ttattttaag tccttgatg agctgatacc 300
attgagcatc ttcaatacac acagccacat ccacacactg gaacactcac acacacacat 360
acacggccac acacacatct actcatacat ttacac 396

<210> 3700
<211> 437
<212> DNA
<213> Glycine max

<400> 3700

tgcgteggag ggtacatctc accatcatgt tattgtttat gagagacaga gccaaataat 60
 tgattcccag ttttctatag atgttgaaca tagtattaac taaaaccaa ctcgttgctt 120
 acattttcta acgtgtacat tatcttatat agtattcgtg tgatgacct tatacttgga 180
 ttatcttggg tgatcctcta tgtaatgaac atagtacact atatactgat gcaagacgcg 240
 agcttgtcta cgtgcgaacc gtgtggatct atgggatatg gcctccgtac ctcatctctc 300
 ggatggctcc ccacactacg cccacaatcc aacatgcgcc tcattgcctc agctaccgct 360
 atcccattct atcccgaac ctcccctcac ttccttctc ctcttctata cctcacgtcg 420
 tttttatact ttcacg 437

<210> 3701

<211> 370

<212> DNA

<213> Glycine max

<400> 3701

acacatgcag caaccatgag gtatgtggga aattgtatat tacctatgac tccgtgctga 60
 cactaaaatt aagttcacia aataacaatc tgggagggtta cagacgcaca ttactaagc 120
 ttcaattgat gactaaatgc ggtgaaaata caactttccg agtcttacct ttcatgata 180
 tgaacattta ttactcagt ggtactattg agtctttctt ttacacataa ttaccacaga 240
 caaaataggg agagtatcca ataccatag ctatattatg accaatgcaa ataaacgtcg 300
 acgagtaa at catggttacc atttacaagt acgacagtag ctccgtcaaa aataatgtga 360
 gagtacatat 370

<210> 3702

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3702

ngaagttgct gagctgaaat ccaagtattg tggtctctctt tgttnttacc cattatatgc 60
 tgtagtttcg ttgttagatt ttttctttat aggaatttat ggtcctgtaa gttcattgag 120

agggcccagg cactaataca tggagatcta cacactgggt ctgtgatggt tactcgtgaa 180
 tcaactcaag ttattgatcc agaatttgca ttttatggac caatggggtt tgatattgga 240
 gcattcttgg gaaacttgat tttggctttc tttgctcaag atgggcatgc tgatcaagca 300
 aatgatcgaa aagtaggtcc cctttttcca tgtcttctgt ggtccttact tgtcctcttc 360
 tttgcatact ataagttgta tttagtcaca tttcttgta ttctccataa tctagctacc 420
 actta 425

<210> 3703
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 3703
 attttctctg taggcacata ccaagaagac cattagcgag agcccataga acagtcaaga 60
 gaccagcaga gacaaacctt aggagaaaac ttgctgcaaa taaaggggga aagaatcaat 120
 tgacagaata tcccacatta ttaatgattg aaagaaaccc tgttttaaag actttattta 180
 ccagaagaaa atattcaaga caaacacctt acgtggccga ccacatatat aaattgctct 240
 cttggatgat ggacgtccac gaataacatg cctggaattc aatagatgat aagcatt 297

<210> 3704
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 3704
 agcttctctc ctgtcccag actccatata tgagaaagag tgtatgcctt caggatctga 60
 ttcattggttc aggcccatgg acttcgcaag aatccattgc tgcttggcct cttcgcagtc 120
 ttcaaactga ttttcttctt ggtaaatagt cccctcaact gcctgtaact tagtggtatt 180
 tgggccttca gaagacgcat catttaaacc acccatagta ttatcctcct tggagctatt 240
 agcttggttca ggttccagct caaggagaca agcttttagct aggccgtgtc tctgcctcac 300
 gtacacttta aggaatagtc cagaatccct ttttgtgact gggccagact ggttgaaatc 360
 atatttgtag ccctctgttt ttttattggc cccgattg 398

<210> 3705

<211> 422
 <212> DNA
 <213> Glycine max

<400> 3705

gactcgagtc atcaagagat tataaatatg tgaccatggc atgagtttca aaaaaataat 60
 catcaatcat ctttgaatca tctatctttc aatctttttt caacatcatc tctcaacatc 120
 tttcaatcaa tctttcaata tctttctaca aaattttctg attcatttct cttcatcttt 180
 ctaaaagttt tttatcaaca ctttcacttc caagaaaagt tctttgttca aaaacttgcg 240
 ctattcatct ttttcattct tttctccctt tgccaaaaga acgaaggact aaccgcttga 300
 attcttttgt gtctctcttc tcccttacia aagattcaaa ggactaaccg cctgagaatt 360
 ctttgtctta acacattgga gggtagatcc tttgtggtac aagtagaggg tacatctact 420
 tg 422

<210> 3706
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 3706

agctttgaaa tccaaagatc taatccaatg tagatgtttc ataaatggga ttcctttgct 60
 tgtgttggtt gattctggtg ccaccattc ctttatatcc tgtttgtgtg taggaaaact 120
 taagctttct gtgtcttctt taaataaaga tatagtagta gagacccta ctagtgggtc 180
 tgtgttaact tctgatgtgt gtttgaattg ttctgtggag atttctggta ggatattctt 240
 gattgatttg atttgtttgc ctttgagcca gattgatgtt attcttggtg tggactgggt 300
 atcttccaac catgtcttgt tgaactgttt tgagaaaagt gtggtgtttg atgattctgg 360
 agtgagtaag gatatgatgt ttatctctgc caaccaaggt gtgacatctt taaaggaaga 420
 tgc 423

<210> 3707
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3707

tgtcgaaatt gccatgtttg ggtgagttag acatacctat tctgttttag ggTTTTgtg 60
 atgatgtttg tgatgtttat atgctgaaat tgctgatgga aatctgttag agatgaaggg 120
 tagaactaac ccaagggttag aaagtgagaa tgtgacgtta tgagtggaaa aagagtgaga 180
 ctttgagagt tggaaggcta agtctgaatt ctgtggtaaa tggagggttag agtgagttaa 240
 tactagcttg aaatgtcatt tagaacatgt gagaaagggt aggctgagct agagagaaaa 300
 acaaatgacc aaagtgaaca aagagccatt gctagggcaa atttgggtgt tgaagagtca 360
 aattttgatt cggtgagagt ttaggtgtaa atccagtttg aacaagtcta aatggatggt 420
 atggact 427

<210> 3708
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3708

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 atcttaccag aagcagagct cattcaccct ttgaatcaag atgtatagta ggtccggttc 120
 tgcaacagta atgcagggtga tcctcttcaa tttgatcatg ttttgtttgc tanaacatca 180
 taccatctat tgccatttac tcgaatttat agtcgctaac attagctact acaattaaaa 240
 taacttaaca ggttattgca attctatcta gtatatataa gaaataatat ggcatgcagt 300
 ttatacatat attttcttta taaagaggaa tcataatttg tatatatttg atgcatttaa 360
 agtttttact at 372

<210> 3709
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 3709

tcactagttc atctcactgc tttaatgaaa actgcctctt acagctgcat ctctatgaag 60
 accaaagagg attgtttcaa agtaattaat ttcatatctg ggtaaataact aaatactgag 120
 tgctattagt tcctgtctag tcttccacta gaataaaagt agacgaggaa actaatagta 180
 agttaaaaaa ttgctcatg tgcttttgct tagagttatg attttgtaag tttaacgcaa 240

cggaatggct aagttgctag catgtat tctgttgagc aggccctgta tttttgctat 300
tctgtcagta ctccagtagc aacaaagcaa aatgcacact tagtagtacg tcagaactta 360
agactacctt gcctcttaaa tcttataaaa atgctaaacg ctatgaatgt gtttctatga 420
aaccac 426

<210> 3710
<211> 419
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3710

tcacatattt gaagcttaac ttcttcagtg gctgtggctc acgggctacc tttaaacttg 60
cccaatctat gacgccggtt cggaaaataa ccgtcttcgt attgaatggt tcgtgtactg 120
ttattttacaa aaaatgccac cggtcatttg ttaaggacgg ttttagtaga accgtcctta 180
ttcacgcgctc gtaaaaagct ttttaatttag tagtgactgt aatgttattt caaagaagaa 240
tgaaagaacc tagagttttc atcacctca ccaatccatc ccaccctaga tttttgggtc 300
atttcttcan agatctccaa aattcttttag aaagagtcaa cctccctcct tctacatctt 360
caaccctctc acacaacctt atgttcacca cttatagctc ctccactttg gaatttata 419

<210> 3711
<211> 333
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3711

agcttgacan aattatggac aattgtcttg ccttcagggg ttataatgct ctcgggatga 60
aactgaactc cctggtgaaa aaaaaaatca atatgtgaag agaagagaag ggagacaaag 120
tgcaagttca aagataataa taataacaat aacaacagaa aaaaggcatg aacttcagat 180
cagcagaatc ttttactgct aactangaat aatgaggtta aaaggtttaa atttgattgt 240
aaagcacctt cagcagtagc taagtttcct aatttttaaa cacagcataa aatataaaga 300
ttttgccttg taaaagtata aacactaaaa aag 333

<210> 3712
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3712

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 atccctaggc tcttgacctt gacttgatag aacctttttt taagcaaagg catttgactt 120
 gaccccatgt ttactaaag tgaaaaaaaa cccagtgcga atcaaaactc cgacatctac 180
 tatggtcttc ctttttccc gcagtattga gtcaatggtt aggttgggtga gatgttgccg 240
 tcgtgggttca attatattta atatgtatgc atttatggtt attttgtttg gtcaacataa 300
 aaccaagtta gcataaataa tgaagtgttg tttctattcc cttatgatct tatttgtgaa 360
 acttttgtgg tgtttatgtt ggcagttgaa caggatcaag aaaattgga 409

<210> 3713
 <211> 383
 <212> DNA
 <213> Glycine max

 <400> 3713

agcttgcttg tggtgcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgattttc caccatggag atgcagtgga agacaaagga gaagagggtga gaggaggcgc 120
 catccactag ggaataaacc atagaagaag gagcttcacc accaagatga gccttggata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacaaa attgaaggaa gaaaaagggg gagaagttga actttgagtt gtgtctcaca 300
 agactctcat tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt 360
 agcttccttg agaagctttc ttg 383

<210> 3714
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3714

tgctctanat ttacattgat gtttgtattt attggaggag gttgtatgcc atttttgttt 60

taagggtagc atttcttggt aaaactaact ttccaaatgt ttgccttcgc aggaaatggc 120
cctgaggaag ctgcctcaa agagggtccag gaaggacaag gcggccgaag gaactagtct 180
cgctcctgag tatgacagtc accgcttttag gagcgctgta caccagcagc gctgcgaagc 240
catcaaggga tggtcgtttc tccgagagcg acgcgtccaa ctgagggacg acgagtatac 300
tgatttccag gaggaaatag ggcgccggcg gtggacatca ctgggttactc ccatggccaa 360
gttcgatcca aaaatagtcc ttgagtttta t 391

<210> 3715
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3715

agcttccaag cttattgtga tgatgccaaa gactcaagtc aagaatcatg attcaagcaa 60
gtttcaagaa tcaaagagtc attcaatcaa gaatcaagat tcaagtgaag aatcaagaga 120
agactcaaga tatgcaagaa cctcaagaaa agcatcaaga taagtataaa aagaattttc 180
aaagaaaaga ttgaatagca caatttgtcc gaaataattt ttcaaagaaa aatcttttac 240
cagagttttt atggtaatcg attaccagat gcctaaaaac gttgtataac tatttttaca 300
agtagtaatc aattaccatg ggcattgtaat cgattaccaa tgttggtgaa ctttgaatnt 360
aagatttcaa gagtcacaac ttgtgataaa atattttcaa actt 404

<210> 3716
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3716

ntgagccaaa atcctgactc actatatacc ttgaccatt gtgagaatgc caatccttac 60
cctcggaagc aaaaaaagaa tagaggggaa atttccgatc aaagaaaaag agaaggaaaa 120
tttccaatga aagcaaaaaa gaaatgaagg aaaattcccc aatcaaagag tgggagaaag 180
caaaaaaagg aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
gaaaggaaaa ttccaatca aagaatggga gaaagtaaaa aaggaagaag aagaaggaaa 300

gaaagctcct gatcaaggat cgaaagaaac cagaagaaat gtgcagagag gtcttttgga 360
cagacaatat ctgaacagta cagaattgtc accaaatgaa cgaataaaga aggaaagggg 420

<210> 3717
<211> 262
<212> DNA
<213> Glycine max

<400> 3717

agcttcgggtt gttctatttc gagcatcttt atatgtgatg ttcctgtatc ggacctccgt 60
gtgataactt atgaccatta taatttctcg agagcttccg ctgttcaatt togagcgtct 120
cgatatatta tgcgccccaa tcggacatct cggggaaggg ttatgaccat atcaatatca 180
cgaaagcttt ggttggcaat ttctagcatc tcaattgtga tgttcctgta tcggaccttc 240
gtgtcataac ctatgaccat tt 262

<210> 3718
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3718

ntctcccaag tcctaaatga catttcaagc tagtattatc tcactntaac ctccatttac 60
cacagaattc agacttaacc ttccaactct caaagcctca ctctttttcc actcataaca 120
ccacattctc actttccaac cctagggttaa ctctacattt catctctaac agttttccat 180
gggcaatttc agcatacaaa catcacaaac atcatcacia aaccctaata cagaatgggt 240
atgtetaact catccaaaca tggcaatttc aacaagcttt caacaagttt cttcacaaat 300
aactatcatg aagcagaaaa ctagcaagac tacccatcat atctnccaaa acccataacc 360
cacgaaattt aagagag 377

<210> 3719
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3719

agcttgatac atcatcacia gtggtggtgt caagggttct ttttatttaa agagtgaagg 60
atattcagag aatggggaca agaaattcat cttacgcagc tgtgtaaaat gaaatgaaaa 120
aacgggttgt gttttgattt ttcatcagaa cacanatcct attttccac tcaactccttt 180
tctttcaaag gccaaaataa tgcactactc tcaactgatca ccatcaaact atgcttcttc 240
tctctttgac accaaccatc aaacctacat ctctcacctg cataatntggc caaccacaa 300
tttgnggacc tctggcactc ntgtttgtat tgcttcacat cgtttgggat ctgggttgct 360
cacgtc 366

<210> 3720
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3720

tcatgatgaa tcaacaatga ttcanaggtg ttttgatgat aacaatgatg acaacaaaag 60
atgatgacaa aggtgatgaa caaaaagctc anaagatcaa agaacaactc aagtgaatca 120
aagaacatct caagtgaatc aagaacaagt caagagttca agaatcaaga agaattcaag 180
attcaagact caagaagaaa gtctacaatc aagaatcaag attcaagatt caagatctca 240
agaatcaaga tcaagattca agaatgaaga aaagactcaa tcaagataag tattaataaag 300
ttttttcaaa actttgaata gcacatgagt ttttgacaaa acctttacca aagagttttt 360
actctctggt aatcgattac catattgtta taatcgatta ccagta 406

<210> 3721
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3721

agcttggttat tatgataaga gcatacctgt tgtttcctag aagtccaaaa atacaagaca 60
ttttgttaat gaaataacca aaaactatca tattaaccaa atcaccacct ccaagctacc 120
ataaaaatta taaaaaattt cataccacta tatatatatc catgatctca accaatcttt 180
acataacccg taatcaagtc ttttgattan aaaaaaaaaac ctaatacatt aatcatgtca 240

agaatggtgg aaccatatat tatattatta gatcgatcat atgtttcaag aaaatgtctg 300
 agcctatcta ataatttctc ctaagaattc aatacacaaa cctggatgag cagaaagcta 360
 tgacat 366

<210> 3722
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3722

tcgaagaaac ggataacaga ttgattntac tctgtaacta gacgacatct cagactgata 60
 ttgtggaccc tatttgcttc ttgatgcaat cctaccccct aaggacattg aataaaagac 120
 tccaagaaga ttggaccaga gagatgcaag agaagacctt aggattctca tgagccttag 180
 ggtagatttc gggcccatgg gttaagtata agtcactta tctttgtaca tatcatatca 240
 aggttttatt atttttgggc cttgtattta gggtcttata gtgtaggtag ggtacccttg 300
 aaatgtagga tttttcagcc cttgtatttt agggcacctt gactagttta ttgtattagg 360
 ggtagttctg taatttcaca tacattaagt gaatatttga tgtgtgt 407

<210> 3723
 <211> 196
 <212> DNA
 <213> Glycine max
 <400> 3723

acatggctca ttaactgatg tttagtaccc tcgtttgatc taacagttgg gactgttgaa 60
 cctccaatcc atgttcgttg tagatggagc ttggcatgct tgtgaggagg gaaaggatgg 120
 acaaactcgc acttggggaa gcattctata tggttcgttg tcgcatgcca acgacgaatg 180
 tgattctcta cctaaa 196

<210> 3724
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3724

ccttattata caagcttgcc taagggtgtt ctctttccta cccctaatag tatecttatg 60
gcatntctta ttctgctcag tatcctagaa gttaattaac ctgttgcaat atgttaggag 120
ccatttcagc tgtttttggt tatacccttc aaattcttat ctgtattcag agctatgaat 180
ctgtaaattc tgttgcatgg tactcttttg gagcttttta ataacttatg tatacactgc 240
aggaagggtga tgtaattgct tatcgattga ttgagttaac agcatcttgg actccggaac 300
tttctcctt tatggtacat atcaagtctg cttttggatt acataattng aaaaaaatt 360
gcatcagaag ttaatacgt attacatcta t 391

<210> 3725
<211> 336
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3725

agctcgtgct tcacggataa catgatatct ctgacatgnt ttatgacatt gctataaatt 60
gaaagcaaga tgaccataat aacagccaca gacatattca atgactcaaa tgtcatattt 120
ccttttctat ggaagacttt caaatctccc attaatcaca ttttggtata tagcacgggt 180
caatggggac aggacatgta ttctttttgc cctcttctct catcacccac aagatatttt 240
aaattatgat tgtaaaacaa atagaatagt cgccattcaa taatatgctc taacgttttt 300
cggggtgaca cttttgtgcc attattgaat actatg 336

<210> 3726
<211> 389
<212> DNA
<213> Glycine max
<400> 3726

ttgagctcga tgatgctgcc ccatagagcc cctcggatct tgtttctacc caattcttct 60
gtttggggccc tctttgtttc ccgtccaat gcttcgggtca tggatcatgtt gacatccctt 120
atctcgtcac actcttttct gaccttagtg actgccatct ttagtctttc tttaaccact 180
cttgtttttc aagctctact ttcaaggctt gcaccttctc gctctcctca gggacttcag 240
cttcttcccc acttggaact ttcagctttg ggagccaagt tatctcttgc gtcttaacct 300

tcaaccactt atgatagccg ccgacgacac cgttggtgct tccactaagc tccttatctt 360
 tttgttccac tgtattccat gcctttcgg 389

<210> 3727
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3727

agcttgtagg attatggngt acccatcata tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180
 ccccatcaat cctcccaagc cttcccaaca tcaaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa cagagcaaaa gcagaaaact ctgccaaaac accaaccaga 300
 tcacagcttt tctcacttag agaccccagt aacaattcct tcgatccaaa ttcgtaaccg 360
 ttggatcgac tccaaaattt tactggaagt ctatagtga taagcctaca t 411

<210> 3728
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 3728

taacatgctt agaaatcaag tgatcatgta ttccgaaatt tagggggaga aaacggatgc 60
 acattttatc tatatacaat tgtttgttgc ttgcttgaat cttgatttca ggtattgtat 120
 tgtcatcatc aaaaaggggg agattgtaga tgcaattgac tttgatgttt tgatgatgat 180
 catgatgatg tgttgcaatt gatgcaaagtg ggcttttcaa gattaaaatt caagacaata 240
 cttcaagatt acaaggcaca acatcaagat gatcactaga atattaggaa gggaattcct 300
 aattgaatta gcaaagggtt ggccaagtga tttaaaataa aaagtgtttt tcaaagggtt 360
 tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca aatacgtttt 420
 ataac 425

<210> 3729
 <211> 406

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3729

agcttgagct tcagctgcta tntatctaata ttaatgtaca tcttgtaaga ataatatgat 60
atatgtcaca gcttacaaac attgatgtaa cattaaaaaa taaatcaagt aactagaata 120
tgtgaacagt tctagataag ggaatatcag cacaacaaca acaaacataa caaaaaggat 180
aaaaaacata tgaaaagaaa gaggaggaaa gaagagaata acagttgact actacaatat 240
ccttataggt attaaaaata tttgcaataa catgacaaaag gaattgcttc tcttaacatt 300
gtctaanaaa aactaacatg ataccatgga gtaacaaagt tcagatagag gtttcttcat 360
ttaatacagc tcacttcana atagactttt tatttncatt tacttt 406

<210> 3730
<211> 436
<212> DNA
<213> Glycine max

<400> 3730

actcagctta cagatccgat catggaagga tttggcaact gccttcatta ggcagtagca 60
gtacaatacg gatatggctc ccgatcggaa ccagcttcag agtatgacta agcgagagca 120
tgagtcatt aaggaatatg cccaaagatg gagagatctc gcagcccaag tcgtaccgcc 180
catgacggag agggaaatga tcacaattat ggtagatagc ttaccacacgt tctaatatga 240
aaagctgata ggctacatgc cagctaactt tatggatctc gtcttcgccg gagaaaggat 300
tgaatccgga ctacggaaag gcaagtctga atatgcttcc aatgtggccc ccaacaacaa 360
cagaagagcc ctagtagtgg gtgcgaggaa aaaggaagga gacatccacg cggtcaccac 420
cgccccgatg tggatg 436

<210> 3731
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3731

gctcgtgaac gattgttaat tcanattagt cgtataagta tatgtggtgg tactaggaac 60

gcgggaagca ccctaaatat tgatttgtac gtgccatttg ctaatgagga gcatgaaaac 120
 tttattgtgg atttcatgtt tcaaaattta tggttccctt gcctcttcat cgtcatcttg 180
 tctttggtga tgctcataag aaatgtggga aatttgttgc atgttaataa attctgtcat 240
 tcgattgttc gagacgcgct gtaccgcagt agtaattatg tctcccat caatgtcttt 300
 tgagtgcatt tgatttgtta gaaaatgtat gactaggtat acttatttcg caaaaaata 360
 cttattttat tgtttgacag tttgttcatg gatatttctt aatcttgaaa atttttctc 419

<210> 3732
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3732

taagcttggt agtgtctttt ctttctttnt cttctggagt tgagcttaag ccctaaagcc 60
 aaaacattgt cagagtcttt tcttcatttt tcttttaggg ttgagcttaa gccacaaagc 120
 ttaagccttg gatgcccaat ttcttcattt ttcttttctt gagcttaagt tatagatctt 180
 aagccttggt agcacatttt cttcattttt cttctaggat taagcttaag tcttgtcaag 240
 gtattttctt aatttttctt cttgggtcaa gcttaagcct tgtaagccta ttttcttcac 300
 tattcttcaa ggagatagct taggctatag agcttaagcc ttgtcaaat ctttcttca 360
 ttattgttct agggtaagc ttaaacggca aagcttaagc cttggaagtg gtggttcttt 420
 atttttctt 429

<210> 3733
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3733

agctttgcgg atttgtactt cgccagtgtg atgatcaaag tgggtctgaa aagaggcaaa 60
 tttggtcatc ctgctttgat aaaaactggg gcaaatgaag aggatgagaa tgaggagaa 120
 acccatgttg tggttgccat tcttatatgg ccaagtttcc caccaacca acaatgtcat 180
 tactcaacca ataacaaccc atctccttac ccaccacca attatccata aaggccatcc 240

ctaaatcaaa ccacaaaacc cacctaccaa tgctaaacac cacctttagc ataaaccana 300
acacccgccca atatatgagt tttgcagcga anaaaacctt gangattcac ccaaaatccg 360
gtgtctatgc tgac 374

<210> 3734
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3734

tctaaacatt ntgattntca naatttataa tgaagagtca catctgttga tgtgtaaccg 60
actacacctt aatggtaatc gattaccagt gactgattta gaanaataaa tttccaaaag 120
tcacaattct tcaagtgact tgtttctgaa atttttttca aaagtcataa cttttttaag 180
tgactagttt taaagaaact gccaaagagtc acaaactttg acttgagtca tcaagagatt 240
ataaatatgt gaccatgaca tgaatttcat aattatcaat aatctattct tcaatctttt 300
ttcaacatca tctctcaaca tctttcaata tattctttca tctctttcaa cactttcaac 360
agaactttct aattcatttc tcttcatctt tcta 394

<210> 3735
<211> 255
<212> DNA
<213> Glycine max
<400> 3735

agcttggcat atatatatat atatatatat atatatatat atatatatat ttatatatat 60
tataacaaag agatcttcat ctatgaaact atgttacgtg acaatctcat attttttact 120
tttcaattaa acgcgatcca ttcaactatt taattctaatt atcttatttt tcttcattaa 180
acgcacccgc gccgaatatt tagtttaatt gctttattct tctatgttaa aataaaaaaa 240
tacataataa ttatt 255

<210> 3736
<211> 386
<212> DNA
<213> Glycine max

<400> 3736

gcttggcaca atgccactcc atttactatc cgagtatata gtggatcttg ggatgacaat 60
ggcattttta ttacacaac attaaatcat ataaaatatt gcctcccca tggagatagt 120
gggataatta aaacattgga tgtcccaatt tatattacaa aggttggttg aaacaccatc 180
ttctgcttgg gtcgcatgg gaaaaacaaa gctataactg ttgatgcaac agaatatatc 240
tttaagcttt tcttggtgaa gaaaaaatat gatcatgtaa tgaacatgat aaagaattcg 300
cagctttgtg ggcaggctat gattgcttat ctacaacaga aagggtttcc tgaagttgcg 360
ctccattctg tgaaagatga gagaat 386

<210> 3737

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3737

agcttgagca actctaatag gggaaattct ccttctccaa ccattctttc cttcctttct 60
tttatccatc tcatcccttc ttctatctac attagcccta aagtgtaaag cctctcatga 120
taatgagagg ctaaaccccc attggtggga gtctggcaga ccaacttttg taatgtagct 180
ttttcttatt atttatttaa tacaatccaa tttctgttgc tcttttctgt gcttatttgt 240
ttattgatta ttgtatgatc atccatgttc atgtagtgct tagaggataa tgctttgaan 300
aatgggttatt ttctaagaaa taggaaaaga catctaaatg aaatcattgc tagaaataaa 360
tngatatttg tttatcctat tttatgcata tctaacttta atgcaattta ttgggt 416

<210> 3738

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3738

tcaagaaaaa gatggcctca gctnattcct tatttccata agggaattct atcaatagac 60
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
aggcaataga tctaaatatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180

tagaaagagt ttcaatagat ggtagtcat caagtgaaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaata gcaaaaaaca 300
taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagat 417

<210> 3739
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3739

agcattgatg atatggtctt caccgactaa aggatcaatg tgggtctaaa taaaggcaaa 60
tttagtcatc ctacttagac gaatgagaaa actggggcaa aagaagaggg tgaggatgaa 120
ggagaagccc gtgctgtgac tgccattcca atacagccaa gtttcccacc aaccaacaa 180
tgtcattact cagccaataa caaaccttct cttaccacac cgcccagtta tccacgaagg 240
ccatccctaa aatcaaccac aaagcctacc taccgcactt ccaatgacaa acaccacctt 300
tagtgtaaac caaacacca accaagaaat gaattttgca gcgagaaagc cttagaattc 360
acccaattc cagtgtccta tgctaacttg gtcctatc ta 402

<210> 3740
<211> 413
<212> DNA
<213> Glycine max
<400> 3740

tgtaatcgat tacacacata ctgtaatcga ttaccagagc acattttcaa aaaatattct 60
caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggcttta tctattataa 180
aagcaaactg tgttatcctc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240
aattatttga gtgctcaa atgttcagtct atctctttca agagagattt cttcttttct 300
tcttcttcat tctgaaaagg gattaagaga ccgagggtct cctgttgtga aagaattcta 360
aacacaaagg aagggttgct cttgtgtgtt tagaaccttg taaaggaatt tac 413

<210> 3741
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 3741

agcttcttga tgacaggaag catggactta tgtgagtcac tccaaaatgt gatattatcg 60
 ctaaggacaa gcacaaaaga tacacaacat cattacatat tttatttctg aaaattatct 120
 acctactcac ctatgtgatg ataataataa taataaatat agcacaaatc aagggttgatt 180
 taatgatatt tttcaatatt gtaatgttaa cctaaaactg aagttaatcg atcacataaa 240
 taaatgtcgt cgtattttaga aaagaaaaac agaaaaaagg gaaggtggag tataacctgc 300
 agtgagtcca tggataagga attttggtga cattgacatg taatgccttt tggac 355

<210> 3742
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3742

tatgaccaat ttgatctcca actntgagct cctcattgtc catgaagggtg ataattccct 60
 tccggcacac agaatcatag agtttacaag taaaagtgtg atgggtatca tctctcctaa 120
 aactaaggaa tacgtcatgg gtacactntg tttcagacac tgtaccatca tttgccatga 180
 ttgtattgta gtagcactgc aagtagagta gtgggactat gagctttctt tcoatgaatg 240
 aatgactcgc atcacaaatc tctacaact tatatcagga atttaaacia atactaatat 300
 actttgttat ttttacaatc tattattata tattctattt tttatttgaa tatatttatt 360
 atcattntct ctccggctct ctccaatagc cactgtggcc ccttggat 408

<210> 3743
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3743

agctttacca ttgaattcag caccttatgt catattagat ggaaattggg tatcttaaca 60
 taagagaatt cagatggact ttaatcctaa ttccacaagc gaccttttca cgagatctct 120

acttaaccct ttgggtacat gatcagccac attatgctga gttctcacia actccactga 180
 tatcacacca tgcattgatta actcccgaac catgtttgtgt ctaacaccca agtgtctaga 240
 ctttccatta tacactggac tatatgcctt agccaaagnt aatatggggt aaccttattc 300
 cttttggtag gaattcagtt taacatgtaa caggctgcca acatagcctc accccaaaat 360
 ccttcactt 369

<210> 3744
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 3744

tgtcatagta tgacatgtgc agatgaataa gattaggatt aggcaatcca cccgcaaaaa 60
 atgagtcatt aggacaatga gttatgatca aatcatgaag aagtgagaga ctctagtaag 120
 catgttctac aatatataga aatggatttc aaattcttac aattagaaat tctaagactt 180
 ttaagcacag agaaacaacc taagggtgaag gaagtcagtg aataacatct attaaatatt 240
 gtcaaattct ttaatgatgt gtaatttgtgt aaggattcat aaggtaggaa ctccaatttc 300
 tcacaattaa gtagagtaag agattgcaat gcattcagca gaccatctct taaggatgct 360
 aggggaattag tgccagagat agttaagtct aggatgaaat tgggtgga 407

<210> 3745
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 3745

ctcatgtgtt ctagtctttg atggcatagg gatgaattgt tgacatgcct cagtaactgc 60
 taccatatcc tcatctgcaa tcatgtaaag agatcctcgc ttttttccac gagccacaat 120
 gagattgcct tttgttacct ttcaagctct atatccaaaa gtggtgtaat gccctcatt 180
 atccaactac cctatagatg ttagatttcc cttaaggca agaatatgtc aaacattgta 240
 cagtgtccat agggatccac tagaggctct gatgtcaata tcacctcttc cgacaatgtc 300
 aagagatttt catctgcaag gtaaactttc caaaccttcc aaaatatagt tagataaaaa 360
 tc 362

<210> 3746
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3746

gtgaccttag aatcctcaag cttcgagaat tgcccaaact ccctctccat ttctgatttt 60
 atgcttaa at aggtggcctt gttggtgctt gtgcgcctag cgcaactatg gctcgcttag 120
 cgtgcattag tgaatttcag cttagcgcgc gtcttttcac tcagtggatg gactcaagtg 180
 gtgtgcttag cgggattagc cctcgctcgg aaaacattta cagcttatcc ttcttccaga 240
 ttcttctcgc cgctcagccg caagagtggg gcgctcagcg gatggctcga taagccagca 300
 gattggctta gcgagcggat gaaaatcagc acttcacaaa cttgccta at taacctgaaa 360
 ttgagaggaa atgattatta aacacacaaa atgggagtac taagtattta ttacctatct 420
 ttaacanana gtaattacaa cattacaaaa taacc 455

<210> 3747
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3747

agcttgaaca atagaagagc ttcccncttt cctcgaaact ctaaatgccc aatattgcac 60
 ttgtcttcaa actcttccag agcttcccaa attgcttaaa actttaaatg tcaaagaatg 120
 caaatcgctt cagagtctac cagagctttc cccgtcgcta gaaattctaa atgcaagaga 180
 ctgcgaatca ttgatgactg tattgtttcc ttcaacggcg gttgaacaat taaaggaaaa 240
 taggacacag gttatgttct ggaattgctt gaacttggat gaacattctc tagtggctat 300
 tgggttgaat gcacaaatca acatgatgaa attcgcanac caccacctat ctacacccaaa 360
 tcgtgagcat tgtgaaaatt acaatgattc ttttcaagtt gtttacat 408

<210> 3748
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3748

tgtcaaggta ggaaaaaagg acagtgcattg tcatattgtc cgacccatca agcatattca 60
caatctgcaa caggaaaagg acggcaatga aggaagaaaa agactaatct acattatgtt 120
ttcagtgtca ctcaacaagga cataagaata acatttgatg caaatTTaaa agaaatcata 180
aacaaaaaat ttgatgaagt gcatacttta tagaaaacag ttaagaaata acaataacca 240
aatgaggcat tttttggttg tgcttttttg gtgtctgttg attatgctgg agcataattc 300
taaaactttt agccataaaa gtacccttct ccacctttta tgagacaggc ttgtttcctt 360
agcttcctta tngtggtttg catattggat ttttttagtt ttcaaagggt ggccatgcaa 420
taggactata ttgt 434

<210> 3749
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3749

agctntggag aaccaagcca atcagaatgc tagacgaaat atagatggga atagaggtaa 60
caatggcggg aatgacggac cgaggcagaa cggggttgag ggagtaaagc tcaatgttcc 120
tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180
cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240
ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300
gcgagaggta gatacatgga ctgagatgaa aagggtgatg agaaaaaggt atgtgccac 360
tagctataac aaaacatgc gacagaaact t 391

<210> 3750
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3750

ntgatggtgt tgagaaaaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120
 aagattaata caagattggt tcaacaaaca aatccttgat tcaatatttc ttcaagatca 180
 agccttgccct caaaatgcag agatttcaag tcatccaagg cacatgtaat cgattaccaa 240
 tggtaatcga ttaccaaggc acatgaaagt gtgtaatcga ttacacatca tatgtaatcg 300
 attaccagag actctgaacg ttgggaattc aaattataac tgtgtaatcg attacacaaa 360
 cattgtaatc gattaccagt ggaaagtttt cagaaaatct gccaacagtc acatcttttc 420
 attagatttg t 431

<210> 3751
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 3751

agcttgagaa ttgtaaagga ctacttaata gcatgaaata cgtcttagaa gggaggattt 60
 tctaagacgg ttatgatgat gaaaccatct taaaataact ctcatcttaa gagggttatc 120
 taatcaaaat catcgttgaa aaggactcat tctaggctct ctgtgctttt tttttttttt 180
 tttttttatg ttttagacct agtaattgtc ttagaatggg agctattcta agatgatttc 240
 gttgtcatag tcgtcttatg tagcaccctt attttttgta aaataaatta aaacattttt 300
 ttttaaaaat aaatagggtt taggaaaata atgaggtttt tgtaattaaa taaataagga 360
 ggaataattt tattaattaa ataatgggtt taagggtgaat aaaat 405

<210> 3752
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 3752

tgtccaaaac taggtaaaga tggtcagggc ccagaatcta attaattaag tcgatgcaaa 60
 gattagataa cactataaca atcatgaagc tctcataata aaattacctc ttttatttat 120
 ggcagatact ttactatcaa gcaaacaaga taaataaaat tagaaagata cccaagaaag 180
 atgaagaaac acttgagaat tttcgttcta gtaactaatt tgttataaga tttgcactgc 240
 tagatcctca aacaaccaat ctttcagaa aaatcattaa tgatttacca ttcttattta 300

aaaaatatta aggttaactt ttatgaacca taatcatgga tcatgttatt tgaacaaaa 360
 tttataccat catcaagaag gagaatgata ctttaataat gatacttcaa attgtaccat 420
 caaaag 426

<210> 3753
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3753

gagcccgagt agtcgaagat atgnttaagt ccatagccat canagtctga aaagagtatg 60
 atgaactaag ggacgtctat atggccaccg ttgaagcctt ggaacgagaa accaagaagg 120
 cccgaaagga ataacacgtg ccagcaaagt tttgaggggc tttatagggc agcaatagta 180
 agtcaagct ccgaaaaggt gaaaggaatc atcacgggtc aaaggcatga tcttgaagga 240
 tgagctaaag gcttacctta ggtcgaaaag aaatttgtcc caacaagtaa gcgagactga 300
 agggaatatg tgggccgtca tcatgag 328

<210> 3754
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 3754

tttatctcta tatatTTTTT tattctttta ggaatccata taatagccat atgatatacg 60
 agttcttggt attcaattat ttgttttcta agaaatccga ctcaatacga attttctgag 120
 acttcattca cttcaattta ctaccacaaa ttgcctcatg tacctacaac aattctttta 180
 cctgtattga aaaatagggg tatggcaaaa aaattagagc aattgtcttc cactgagtgg 240
 gcataagctt agcaagatga agtagctttt tctctcttc tcttgtccac ccaatctata 300
 cacaaaaagc atcagattga aaaatcactc attagaaaaa tatcacaaca attaataaca 360
 tagttggtac atactcctta tcaataacat cttaaaaaaa gagaggctct taaacccaaa 420
 gaaag 425

<210> 3755
 <211> 415

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3755

ntggngctgg naaactatat aacttcacca aggttctagt ttaggctctc tcttctctct 60
ctccctgtgt cattctgctt taggcttttc ttcttttaga cactatttca ttttgcaatt 120
ccaattttta cttttcgttt cagcaataaa actccattct tcaatctata attccggtct 180
ctattgatta atggaaggct aagtcccaa cgatgttttc tcttgaggat caagcacagt 240
tctctttgag gttctattat tactggtaat ttatgttcat gcttaatgat cgctcatgat 300
taattggtgt atgtgttgc taatcacata atgaatgcct tatgttagat tttgcttagt 360
aattcaattt aaggttggac taagtgggtg aaatgataaa ggataaactc tcgta 415

<210> 3756
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3756

agcttgtccc tccccttaga attgctactt ccactttgcc atcctaatta tttattgggt 60
acatgtaa atagatact gaaattcgaa tcaaactaaa ataaaacaac ttaattcgat 120
tttaaacacc tgccatctaa acgtggaata atgggttgtc aagtccatca gtaacacctg 180
ccatccta atagttttat ttggtgaata attccttctc ataaccatgc tctattattt 240
tccacgagtg tacagtgtcc caacttcagc ttgttaggaa tctgagatct accacanagg 300
agcatcaatt atacaaaata aattattcgt tttctacaat tcacccctcc ttatgct 357

<210> 3757
<211> 414
<212> DNA
<213> Glycine max

<400> 3757

tgtgcttaac gtagaatttc caattatatt ttataatatt aattgcaact ccaataaaaa 60
caatttaact atatattatt attaacgtaa tttctatttc tactactctt aaaaacaatt 120
tcactatata ttgttataaa tcatgtggat acattttgtc acaatctaaa catgtcagtc 180

gcacatcaattt ttcccttttcc catataaccc cagaatttca agagttagtc aacttgaatc 240
 tcctattata gaggcatttt cattcacaca ccccaaattg ttggaaaaat aaaataaaca 300
 ataagcaaga aaaacacaca cgtgcttttc tcctaataat cacctcaagc tacgtatgag 360
 caaccagtga ggggatatcc ccaatatgct ccacaataaa gaaacatgtg acat 414

<210> 3758
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 3758

agcttatcgg tcacatgact aacaacatat tacaacaac caggtaatga aggaggttct 60
 ctggttaggga gtaaaaaagt tgacatcggc attttgaatt taatatcatc cttaatgttt 120
 ccttgattgt agacaccaat tagagtccag cctataattt ccatggaaat gttgtgggcc 180
 cacattgctt ctacagaact tgggtgcagga catttcaact cgaataaaat ctcagcttca 240
 ttccattcgt gctctgaaaa tattccctcc gctttgcatt ctagatcaca ccagagtatc 300
 ggggtcccatg ttctaaatat gtaattacat gaagaactaa atcgcatagt gccattgatg 360
 agtacgctga acttcataat caacaccatt ttcatgacac ttttcaatct 410

<210> 3759
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3759

tgatgttggt ttgcatgtac tgtatgaaaa agaaggtagt gattagattt aatttttaat 60
 agacatatga ttgatttctg atctgctcaa gtttgagatt tctttctttc tttctttttt 120
 ttgcttgaat tatgagtaac ctacaagctt ggtccaatca tgcaactaat ttttggtctca 180
 tcaatcttta agcttgaccc ttttcagaaa cctttgcgaa tgattaacct tttgggtgct 240
 acttttcatc caacctatct gaatgtgacc tatatatgta tgcattggag gtttccaact 300
 nttaagata gaaatgtatc tgaaatctct aaatacatga gctgcagaag aggaaaatat 360
 gctgaanaat cttgtattgt gaatacctga cttt 394

<210> 3760
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3760

agcttggttc aaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cggtcgaaaa ccttcgcgaa attcctcacg gaaaacgtta cggaaacgtt 120
 tcggaagcgc ctcggttat attttcttca cgaaacaat tttccaagc aaattcgaaa 180
 gagagataag tgcctaaggg gctgaaccct tttccttctc acttcctccc ctatttatag 240
 caaaataggg gagatgcttg ctgcccagct cgcccaggcg agcagggttg ctctctccag 300
 aagcaacagc cttctggagg aatcttcttg agggccaag tgggcctggg tgctatttgc 360
 actcccatth ttactaagta cccccctct gcttttttt 399

<210> 3761
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 3761

attcgattca ttctatgtac ccgtagtggt ccacattgtg tctcgtgcat tattattctc 60
 gttttgttta ctttttatac cccctgttga cgcgcttaag ccattttact taagccattt 120
 ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
 acttcgttta aaatatattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa aataatataa taatcaagaa gacatctttt agtaaaataa agcggaaaat 300
 caatcggacg ttatctcttt gggatgtctc attcttaatc gaattgatta ataactaaag 360
 tgaaactaga ggctaacatc aattcggcta gtcaagctcg tacataaaat aggcttt 417

<210> 3762
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3762

agctntacta tgtaatgaat aaccaaggta aattccttca tctgacttgg catcaaattc 60

tcctaagttt tcctttccat tgtttaatac aaagcatttg caaccaaaaa catgtagatg 120
 tgagatgttt ggttttctac cattgaacaa ttcatatgga gttttcttta agataggtct 180
 gattaaagcc ctattcatga tataacatgc agtattaaca gcttcagccc aaaaatattt 240
 tggaagagga gtatcattca ataaggttct agcaatttct ttcacagacc tatttttctt 300
 ttcaacaact tcattttgtt gaggggggtct aggtgcagaa aaaatatgtt caataccatg 360
 cttttcacia aataagtcaa attctttatt ttcaattccc cccatgatca cttct 415

<210> 3763
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3763

tttaaccnc tttntaaaag atatgcttag aatacagatg aagaacaaga agcaatcaat 60
 ttaacaatgt tcttttaaac gtgcaaggaa aaattgattg caataaaata aatgagataa 120
 gggaagagag aaatgcaaac ttgatttata ctggttcgac cactttccgt gcctacatcc 180
 aatcctcaaa caacctactt gagattttcc actatctttg caaaaatcct ttttacaact 240
 tctgaacacc caaggaatca ttttcccttg tgttcaagaa actcacaatt caagagacaa 300
 ccagtctctt gattacaatt gattttatga gaagaacaaa aagattttct tcttttagag 360
 tggataatac aatttgaagt tcctggatga actctcaat 399

<210> 3764
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 3764

agcttgagaa ttgtaaagga ctacttaata gcatgaaata cgtcttagaa gggaggattt 60
 tctaagacgg ttatgatgat gaaaccatct taaaataact ctcatctaa gaggggtatc 120
 taatcaaaat catcggtgaa aaggactcat tctaggctct ctgtgctttt tttttttttt 180
 tttttttatg ggtagacct agtaattgtc ttagaatggg agctattcta agatgatttc 240
 gttgtcatag tccgcttatg tagcaccctt attttttgta aataaattaa aacatttttt 300

ttaaaaaataa atagcgctta agaaaataat gatgtttttg taattaaata aataaggagg 360
aatatatatta ttaattaaat aatggtttta ag 392

<210> 3765
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3765

tgtccaaaac taggtaaaga tgttcagggt ccagaatcca attaattaag tcgatgcaaa 60
gattagataa cactataaca atcatgaagc tctcatagta aaattacctc ttttatttat 120
ggcagatact ttactatcga gctaacatga taaataaaaat tagaaagata cccaagaaag 180
atgaagaaac acttgagaat tttcgatcta gtaactaatt tgttataaga tttgcactgc 240
tagatcctga aacaaccaat ctttccagaa aaatcattaa tgatttacca ttcttatcta 300
aaanaaatta agggtaaactt ttatgaacca taatcatgga tcatgttatt tgaaacaaaa 360
cttata 366

<210> 3766
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3766

ctataattca tgggcataaa tttatcatcc tatgtctaac aatgatttca atatgatatc 60
ctttcttttt ggtctaataa aagggtatcct cttggcagcg gataacccat aaaactgata 120
catgcacatt ttctttatat ttctaccttc ctaagacaat ctttatccta gcccctcccc 180
aaattagggg tctattttga ataaaacacc ttatgttgtc ttaaaaccct aaaaccaggg 240
tcaaaatatc agaaataagg tcagggtatt tataaaaaat aataataatg ttgctcacia 300
ggtgcaggga taattttcac caaggctggc tcttggctaa gtggataaat aaaaagaaac 360
atggctn 367

<210> 3767
<211> 405
<212> DNA

<213> Glycine max

<400> 3767

tggggcattg aggaaggggtt ttggaagaaa gaaggagata ggaatgggtg ttttccaagg 60
ctacacgaaa aataagactt gaaacactca agtgtttcta ctctcaggaa aagaagcttt 120
tctcacacac caaaagacat attgtagatc gtaacgatca ggtcgtagaa atctgtccta 180
tgaacctcca gaccaaattt cgagaagatc taacaattaa cgattgcaga agggcgcttt 240
taccaaggta gcttcaggta gcttccttga gaagcttttc tcgagaggct tccttgataa 300
gcttcctcgt gaggcttctt tgagaagcta gagttttaac taccacacacc cttataataa 360
ctaaattcac ctccttgaaa taaaacatgg ataaaacaac acaat 405

<210> 3768

<211> 344

<212> DNA

<213> Glycine max

<400> 3768

agctcgata gttccccaat ttatgggttat tttggagtaa attttgtaaa taaatcttgt 60
tttatgggta acgatgtctt tagaaaattt ccattggatc taatgaagaa atctgtgcat 120
tttcagggtga aaaagaggct aagttttgaa ttgcaaaatg tagcaattgc gctaagctca 180
gcagttgggc taagcgcagc ttcagcgcgc ttagtgcaaa ggagaatctg gcagagcatc 240
agaattaaag ttgtgcgcta agcacgagat ctgtgcgctg agcgcagcag gtgccttcaa 300
ccaggctaag ctcgagacta gcgctaagcc caatttact tact 344

<210> 3769

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3769

gcttctgatg aatcaagatt gattcanaga agttttgatg ataacaaagg tgatgacaaa 60
nagctcaa atcaagaaca cttcatgata acaaagatga tgatctcaag aatcaaagaa 120
tgaattcaag attgaatcaa gaacacttca aggttcaaga ggaaatttga tttcaagaat 180
ccaagaatta agatcaagat tcaagacaca agattcaaga atcaagagaa gaattaatca 240

agataagtat taaaaagttt ttcaaaaac tgagtagcac atgaattttt ctcataacct 300
 ttaccaaaag agtttttact ctctggtaat cgattactag attattgtaa tcgattacca 360
 gtagcaaaat ggttttcaaa aaacctttca actgaattta caacgttcca attgatttca 420
 aaatg 425

<210> 3770
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 3770

tcttaagcac ctgcggcatg caactatacc ttatcggaat tggaaaagat ttaatgtaag 60
 tcaagagcat gatagtgtgt cgataccatt aactggtcac aggttcttaa gcaggccgag 120
 ggcatcaata ttgtatttgg aaagacccaa gagaaggaaa aaactaaaac ttccatatgg 180
 aagaagaggt cgatattgtt tgatcttcca tactggtagt atctagatgt cagacattgt 240
 attgatgtta tgcattgtga gaaaaatgtg tgtgatagtg tcattagcac acttggtaac 300
 attcaaagaa agacaaagga tggtttgaat actcaccagg atctagttaa gataggtata 360
 cgagaccag tacattcaag gtctgatggt aacaaaatat acttgccttc 410

<210> 3771
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3771

tcttacatag tccgcctttg cttgaccttc ttatgctta anaacagaaa cattatgcat 60
 aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca 120
 attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc 180
 ccaagttttt aagttcttcc tcaaaactgt tctaagcaaa gttcccaaag ttctattaac 240
 aacttttgtt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc 300
 caacttgctc cacaaagtcc tccaaaaatg gcttaagaac ttagagtccc tatcactaac 360
 aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt 410

<210> 3772
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3772

 agcttgatgt gagaaagcgt ggaagagtta gtcttcctac tttngtttgt tgaccacaaa 60
 gcggtacctg gagatatgtc gcgggggtcg tcaggtgggg tgctattgcc caaaaccaag 120
 cttgaccaat cccgacccaa cccgggcata gtcagtcagt gagaacctgt gacgtaccta 180
 aacaggcgag ctcttggcag tcaaccaata aaagaacaaa gaccacaaag caaggaggct 240
 tgtgtggcgg ctggccagct atggatcttg agtggatatct agaaattggc ctctggtaat 300
 cgattaccaa ggggtgtgtaa tcgattacaa gacttaaaaa tggagacagg aagttaagat 360
 ggcctctggt aatcgattac caaggggtgt aatcaattac aaggcttaga aatggngaca 420
 ggatg 425

<210> 3773
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3773

 tcagacctaa gcaacacana atctaggtat ccaaaatccc tcaatttaat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaagta aatttgagac aaactctcac ctacacaaag 120
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
 aaatttgact catcaacacc caattttacc ctagaaatgg ctctttgttc actttgggtca 240
 tttgtttttc tctcttgac agcccaagct ttctcataag tcctaaatga catttcaaac 300
 taggattaac tcaatttaac ctocaaatac cactaaatcc agatttgacc ttccaactct 360
 caaaaactca ctctttttcc actcataaca ccatattctc actttctaac cctatgttaa 420
 ctctacc 427

<210> 3774
 <211> 400
 <212> DNA

<213> Glycine max

<400> 3774

acaaacccat gacgtaccaa tttgaacatt tcttgctcca taacattctt gatgaacggc 60
tatttgacat ctataaaata tataatgcat tcttatatta attgcaacga aattcaaaat 120
gaagagtaag aaaacaacaa ccaacaaaaa cttgccggat agttcaatct tgcagaagaa 180
aaaaaaaagg ttttataagc aaatggtttc attgtcagcg gtgatctgac tgataagtga 240
ggatggtaag gctgaaaaac tgtttcggca aagcagaatg gagactgctg agcatggaat 300
tgaacaacat aagaaagggg gcatataatt gtcaaattgg gtagacaaaa tgctggagtt 360
tcttcttgct tatatcattt caagatgaca ttaattagat 400

<210> 3775

<211> 388

<212> DNA

<213> Glycine max

<400> 3775

ttctctacca cttgtcatcc acaaactgat gggcttacag aggtagtgtg taggtcttta 60
tccactcttt taagggctct tctaaaaggc aaccataagt cttgggatga gtatcttcct 120
catgtagaat ttgcctacaa taggggcggt catagaacca ccaagcaatc cccttttgag 180
gttgtctatg ggttcaatcc cttaacaccc ttagacctca ttccctccc acttgacact 240
tcttttatac ataaagaagg ggaatctagg tcagagtttg taaagaagtt gcatgagagg 300
gttaagaccc aaatagagaa ccaaacaag gtgtattcaa ctaagggcaa tagaggaaga 360
aaggagctag ttcttaatga gggggact 388

<210> 3776

<211> 310

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3776

gtcacctgcg gctgcagctt ccgttattag tgcacagctc ttcaaaattg gcatatcttg 60
gaatttgctt tattgcatcc aacagaggta tgtttacctc tacttttcta aacgtttcca 120
agatctcttt ctctacctct tccattnttt tgntggaaac tgctcttgga gggaatggaa 180

gagggggaat gtgctgcttc tgcaaatacag aattacctgt ggaagaagat tcacctgcac 240
 agaaattggt aggtaaattt ttgtcatcac ctttntctgg aatagagtga agtttggcag 300
 gttcatttgc 310

<210> 3777
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3777

ntgagcaaat tgaattgact attactttat acacggatgt ctggttgagt ccagtaatat 60
 atcgagacgg tccaaattga aaatggaagc tcgtaggaaa ttcaaacgac aataactttt 120
 tactcgatg tccgattgaa tcgggtaata tatcgacacg ctcaaaattg agactagaag 180
 ctctgagcaa actgaaacga caataacttt atacatagat ttccggttga gtcccgtaat 240
 atatcgagat gtcctaaatt gaaaatggaa gctcttagaa aattctaacg acaataacat 300
 ttactcgga tatccgacag agtctcgtaa tatatcaaga cactcgaaat tcagaacaga 360
 agctctgaga atttcaaacg 380

<210> 3778
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3778

agcttggtga gggctctctgt tagggcttct atttgtcggg acaacagctt gttctgagct 60
 aagggtgcat cttgagtggg gagttctaga aggcttctct ttggtgggtgc atatgtgcga 120
 tcaggaagaa tggcgtgatc actagccgcc atgttttcta tgagttccat tgccctctcc 180
 ggtgtcttta gcttaatctt cccctcttgcg gatgcatcca atatttgctt tgattgtggg 240
 cgcaggccat ctatgaagat gtttagttgc accgattcac tgtacctatg tgtaggcac 300
 ttcttaagta gtccatggaa acggctcgagt gcctcgctga gggattcatt anngaaatga 360
 tggaataaag agatttccat cttcccttta gcgggccttt gatt 404

<210> 3779
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3779

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 agcaagggtta caagagaact tcacgtgcag ctcaattcat caggatgttc gcagattcat 120
 cgaacaatgc ctcgattgtc aacataccaa ttatatcact aggaaaccag ttggactact 180
 tgcacccttc cctctaccaa ctcgaccatg ggaagacttt tctctcgatt tcattgttgg 240
 tttaccatct tactgnnggt atacaacat attggtggtt gttgatagat tnttgaaggg 300
 cattcatttg ggtcttcttc ttccacacta tactgcgtac caagtcgcaa acctcttctt 360
 ggatattggt tctaaactgc acgacatgcc taagagccta gttntcgata g 411

<210> 3780
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 3780

agcttcaaga aaaatggcct caacaaattc cttatttcca gaaggaaatt ctatcaatag 60
 acctccaatc tttaatggag agggttacca ctactggaaa acccgaatgc aaatttttat 120
 tgaggcaata gacttaagta tttgggaagc catagaaata gggccttata taccacaccac 180
 agtggaaaga attacaatag atggtagcac atcaagtga agcataacaa tagaaaaacc 240
 tagagataga tggtcagaag aggatagaag acgagtacaa tacaatttaa aagccaaaaa 300
 cataataaca tcagccctag gtatggatga atatttcagg gtttcaaatt gtaagagtgc 360
 taaggaaatg tgggacactc tacattaaca catg 394

<210> 3781
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3781

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttggttc 60

cctttccttg ttttgaagct cactacaagc cttaaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tgactatgct tcatgatgta ttttgggtca tacttgatgt 240
 acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggtaaa 300
 aaaaaaata aaaaaatcaa aataaaaaaa aatcaaaaa aaaaaagaga gaanagcaat 360
 aaagttgagt gaatatgatc ttaaatggca caagaatgat gaaac 405

<210> 3782
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 3782

agcttctgca gctcttgtat tgctacatgt gacagtatat caggtcgaat gctcaatgct 60
 tgcccaagtt ttatgtatgc tggacccaaa gatgtcacia tttcacgtaa ctcaatagcc 120
 ctagcaactt cattctgggt atggaaagag gacaaaagaa taaccaa at gtaatctcaa 180
 aatttgcatt tttgaacaaa gactatgaaa tataaagaaa ctgttactat tttcagagaa 240
 gcttagatat ttatctatag tccatacata acaaaagctc aagccataag ctcttcagta 300
 cagaactaga acaactctgt atacagccct atttagtcat tatttagata tataacacaa 360
 atttacaata atacttacat aattcattaa tagtattgta atatagtcga tttatatatt 420

<210> 3783
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3783

tgccaaagtg aaggctcaag tttctgaagt caaggggtgt atgatggaaa acattgaaaa 60
 ggtaagacct atacaaaatg acattgtata gaggtcttta acagagtcga tgccatcatc 120
 catcaa at atagtactaa tttggattga aaatttacat tttctcgtag gttcttgatc 180
 gtggagaaaa gattgagctg ctctgtgata agactgacaa ccttcgggtca cagggttcat 240
 tttcttcttt attcttttag atatatTTTT aatctaattt acacgacttt gtgttcattt 300

tttttttatt tttttgtaa atatttctta cattatttaa atttttggtg ttagtatatg 360
ctgacatcat tagntacttg gttttaattt ctatctcaac ttgttatgcg atgact 416

<210> 3784
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3784

agcttgtagc cattataaga gaatgagcat gtgattagaa gtatgactga taatgttagt 60
cagtttgtca aattgattgt gaaggaatgc attaatacata tcctgggtgag agtgtgatcc 120
ttaaattttg agagaaacga ctataattta gtactaattt ttgctggaat ctctaaagta 180
tggaactaaat gtatgaaact gaggatgatg aaggccatgt ttaattgtga aagccacttg 240
gccaaaaagt tgaccatgtg cttgaatgaa ttattccttg taccagttt gagctgaatg 300
aattattgat tgattgaacc ctgagcctat acaatgttat ctctacctt gacttangtn 360
gcaggagagc atcatccaca ggaagcatgg ttcanagcaa atttgt 406

<210> 3785
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3785

tttanatatg tataactnt tagggatcac aaacttatta atactgacca gagatgaaag 60
taacctcaa tagcagtcaa ttcacacaac ataaccaca ggacagaaga ttaagacatg 120
gtgtgaagga acttaccgta ggtttgagca attctataat ttcttgagct tgccaaagcc 180
ttatgtcaac aatattagca agtaaatacaa cctcaatcaa aatgtgggat tgctcattgn 240
gatgtgcct ggtcttctc ttaatttttt cttcctttac gattgaaagg ataataatct 300
tagacattac acaagaataa tatatagatc aataaaaata agcatcatat ttatttcaca 360
ctttntaata ttagacctag aaaggtcata tcaggccttc attacctt 408

<210> 3786
<211> 351
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3786

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gagaggggtg tgtgtatcta agctctagct tctcaaggaa gttttctcaa agaagcttct 120
caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180
gtgtaacact tgttgtaact ttgatgaatg aaagtcttgt gagacacaac tcaaagntca 240
acttctctcc cttttcttcc cttcaatttc gngctccnc ctctctttct ctcccttttt 300
cttttctcc attgaagcat cctctccaag cttcttatcc caagctcatc t 351

<210> 3787

<211> 439

<212> DNA

<213> Glycine max

<400> 3787

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tctcacgagg tggaggttgt gccatgttct cagaatgtgc aaaatcagaa tgctcaaaat 120
tataatgctc aagatcagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180
ttatggaatg ctcagaatga tcaaaaggta taaaatgatg cctaactaat ctatgaaatg 240
tcctatctat ctcaggatca aagggttgta agtcagatgg attgcctcta gtcatacact 300
acattcagca tgcacacaac tagttgcctt gtcagtataa taaagggtga gggttgaaact 360
acagctaccc tcaaatgata tccaaatgag ttgaaatttt gtgagcaacc ttataaaatg 420
atgagaagat agcacaaaa 439

<210> 3788

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3788

agctttataa gtgcgggtct gggagactat tgtcaagtgt tcgcgatatg tgaagatgat 60
gttccaagta cttcggattt ggtccgacca tgcctctctg atttccagct gggaaattgg 120

cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt gacggtttta 180
aaagctctat agttgggcct aggctttaga gttttcgttt tgttaaagct ntgtgtcttt 240
tgtttttgaa ttataatac aaggatcttt ctttatctgt tcctgggctc tacccattct 300
cattcatttg cat 313

<210> 3789
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3789

tgcttctaca atctccccctt tntgatgatg acaaccctta aatcaagaaa tacatacaca 60
ttctttttcc tagtcgatca ctacttaat cctacatatt ctcccccttt gtttttgagt 120
ttaagcttta cttggaatta agttatttaa ttatgtgagt tcttgattta atccctattt 180
tctctcccc tttggcatca acaaaaagcc aaagtgcata acaaataaa aacatacata 240
aatgactaat catacacaag acattcattg aaaaaatcta aaccaatcat gaagcaaaaa 300
catgaataac ccanattcaa atataaacca catagtctta taacatagat catagatggt 360
cagtcatact aagcaaatag taaaagaaat actaaatggt caaatgtcgt a 411

<210> 3790
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3790

agcttgtccc agcgtttatg cgagacatat accaacaatgt tagctatcat cgccaagtac 60
gaagaagagt tgggtctagc cacggccac gagcatagaa tcgcgacga gtatgcccac 120
gtatatgcgg aaaaagaggg tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
acgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaggcca aggcgatggc agacacctac tccaccncg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttaatg gccgcataa ttagaaatcg ttaggaaact 360
tgtatggtct cttagacctt gactagatat gact 394

<210> 3791
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 3791

taaggcttgt ttccttggtc aaatcaaadc aattttttga aagttgtttt gttatcaagt 60
 ccatgcaaaa acatttgaat tcatttggtg tttgggaaaag ccattcattg ttttcattct 120
 caatgttttc aaaaatcctt ttgttgtggt ttgatccaat caaaagtaag ttttagaaac 180
 atcggttatt gattctttcc aaagcatgct atgcccaata aaaaatttct gtttaagtcc 240
 caaaaggagt tatatataat ctacaactac actaatagaa caaaatatat caaagcatgc 300
 ataaactagt caaaaacata aactcgcgta agtttcctaaa caaaaatcca aaatagtaaa 360
 taagataata aagtactaaa atttaataca aagcgataaa tgaacata 408

<210> 3792
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 3792

agcttctaaa aggatgtcaa tttgatgttc tatgcctctt gtaggtggca gcccatgagg 60
 aatctcctta ggaaagatat ctttaaacctc ctgcaataag ggttcaacac taggagaagt 120
 agaaatagtt aactcattaa aattatcagc aaaaactcta ttgtatttgc aatacagtag 180
 atagagtggc tcacgagcaa gtaaacacttt cctcacttca cccgcctttg ctacacaaat 240
 aaattttctc tcatgtgtat cactctttcc ctacagtgtg tcaactcttct ttgtcctatt 300
 cttctttggg ggttcaatct tttttttctc tatgtctctc ttttctctca ttct 354

<210> 3793
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 3793

ctctagcagc cagaatgtag agaggatadc tcttctctgt gcactagttg tcaactccata 60
 tgctagacag tggatccctc ctgagattgg acaaggtgat gtcagatgtg atgcttcagt 120

cccttaactg cggaggctca caacttatgg aggggcgctt catgattata catgaaatgc 180
tctgcgcgga ctcaaataca atactggaga ttcattctgtg ctgaatgtag aattgctgac 240
tattctaata aatcttgcct atgaaatgct atttcctttt aggaatggat catggaatag 300
cgggaaaaga actatcacag tactttctatt gcaggggcta ataatgggag ctctatcat 359

<210> 3794
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3794

agctngaggg agngaggttc agctattctt attcttcttc cttgcaggtt ctttgtgttc 60
ttgatccctt gagtcaccaa gtttaggtaa atgagattca ttcttcatcc taaacttgat 120
ttgtcttcat tctcttgctc tagtttctcc aataacttgt aactgccatt ttgtattacc 180
catgaaggaa aactttgaaa aacctaata ttcttcattc ttccttctaa atttcgtgga 240
gtctacaaga ggtaagggga gtctctccaa ctcttgaacc atgtgcttgt tgttgaactt 300
acttgaacat gttgttactt tgaaattttc aagcttgcgt ctattcctgt atatgtgtac 360
tgagatatnt tccttgagct ttgatgccaa aaatgatatt 399

<210> 3795
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3795

tgaggaatca tanggaacct ctagagacac tgctatcatg gccagactac acatgtgagc 60
ccacttagag gtaagggatg agtttatcgc aattgggatt agaatagaaca tgtgtagggga 120
tccttagagg attaaatttg gggtttatctt gggatgttta ttgaattata atttttctct 180
tacgattata attatgagat tattatgttt gatgggtcaa ttgattccct gatacgaatt 240
ggttgataaa attgagtgcct cttgggtgttt tcgttctttt aacctatgat tttgattact 300
ttgattttga tatgattatg tgaaattttt tgaggggttt tactcctcat gttgtgagaa 360
gtatttttgt tggacaaatg gctcagttt tcttaagaat aaggagttga attaagatac 420

aaaaactat

429

<210> 3796
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3796

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tttctatggt tgaagagtga aattttaaatt gaggtaaatt tgaagcaaac tctcacctca 120
caccagtcca taacatccat ttagacttgt tcaaactgga tttacaccta aaatctcacc 180
gaatcaaaat ttgactcttc aacacccaaa ttgtccctag aaatggctct ttgttcactt 240
tggtcattta tttttctctc taacacagtc caagctttct cataagtcct aaatgacatt 300
tcaagctagt attaactcac tttaacctcc atttaccaca gaattcagac ttagccttcc 360
aaccctcaga gtctcactct gtttccactc ataacatcac attctcactt tctaaccct 419

<210> 3797
<211> 427
<212> DNA
<213> Glycine max

<400> 3797

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ctattacaat gcacccaaga gaccatatat ctaacgctgg ttcaatctga ccaacgaccg 120
attctgggtga catgtaaaaa ggtgtccctc taaacttgac cttcccatac tcagcatttg 180
catcttctct agtcttgagc aacccaaaat cagcaatctt cagttgatac cttgcatgat 240
catcagatga aggaaagaga aggatgttgt ccggtttgag atcacaatgg acgactcctt 300
ttcgatgaat gcaagaaagc cttttgagaa gcatacgagt gtagactctt acttcactat 360
ccgatattgg ccccttcttg ttactaaacc aagaagagaa ccataaggag cacactccat 420
gaaaaga 427

<210> 3798
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 3798

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agctnntatt ttatttatat attatatatt ttataattnt atgtantttt atcacactat 60
tcaaaaccta ttttataaaa taaatatata atatgaattt tatctttaag ttatatatttt 120
tacctaaatt ataatttcac aaaatggttag tattttatta tttataaata tttatatatg 180
tcaatgaata tcttatacct atattaagat atttttatta tttattataa taggttttta 240
tattttaaatt tatttaataca ctacttttta aaagaattaa attttataat aaagatatat 300
acataattaa ataaaatgac catattttct atttcttaaa atatttatgt atggaattta 360
ttgatattat tatctttatt tataatataa taaataacat gagtacctta acatatataa 420
aaaaat 426
```

<210> 3799
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3799

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gtagaagaaa gtgaatctga gccttttacc cctttgaaag acttgatattt aaaaatgttt 120
taaaaatact tttaattaat atttaaattt ttattccttt attagtatat atgtgaaggg 180
tagaggggtgt cacaagagac tatataaaca atctttttaa aataattcaa cgggaaacta 240
gaaagaaaag tgagccaaga agcctcattt tgtttaagtg agctagagac caaccggcgc 300
aagctaaaaa cctctataat aggaaatacc aacagagtct gctttcaaca gaaaaagaca 360
aatctggaa catgataaaa aatagaaaaa tcagcagaca ttagag 406
```

<210> 3800
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 3800

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aagtcggtac catgtgtttc ttatgttaca atcttactca aagtgcata cttttgttat 120
```

gatctttcag agtctaagtt gttcacctcc cgtcatgttg aattcattga agatgttctt 180
 tcgtttttcc cacttcaag tcaacaacac atgatccata accctcaa at tcaaaattca 240
 caaccgaatc ttccaaatcc aacctccacc aattccaaca aacaattcag attccagctt 300
 atattttaat atcaacattg taccaccca agcacctcaa tatcaaccac ctttaaattc 360
 aaattccacc ttctcacaat tccagcttat cttttaatat ca 402

<210> 3801
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3801

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 ttgaagagac ggcatgggta tctacttctt tcctttntgc ccctgttgcc cagattcttt 120
 tggcattcgc atttgcgagg gaaacgtaat caaactttcc tcttttcaat cctacctcga 180
 ttctttcccc ggcgaaact agatccgcaa agctggacgg catgtaacct actagcttct 240
 catagtagaa cactggcaga gtgtctacca tcatggtaat catctctctc tcaaccatgg 300
 gaagagctac ttgtgccgcc aaatacctcc atcgctgcmc atattcttta aagggttcac 360
 cctctttctt gaacatatct t 381

<210> 3802
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3802

agctttgcag cagatgccac tctactctta attcttgaaa gatatgttaa caaggaagca 60
 taaatatatt catcaggaaa acatcatagt ggaaggaaat tgcagtgggtg tgatccaaaa 120
 gatccttcca cctaagcata aagatcctgg gagtgttaact attccttggt caactagaga 180
 agtcaatgtg ggaaaagctc ttattgacct aggagctagt atcaatttga tgccactctc 240
 catgtgcaga agattgggag agttggagat aatgcccact cgaatgacat tacaattagc 300
 tgaccgctcc attaccangc catatggagt aattgaagat gtgttggtca tagtgaaaca 360

<210> 3803
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 3803

tgggtccagtg atttgatgga tgcacccctcc ctttggttcc tttaagttga attacgatgg 60
 atcagttcac gatgctttga agaaggttgc ggttgaggga gtctttatga ctgttggtggg 120
 agagttttat ttgcctttgt tgcaaaagtc gagttctgct ctgtcatcct tgctgagatg 180
 cgggttatct atcttggcat tagcattgct tggaataaaa ggatacatta attttattgt 240
 agagtctgat tccttgaatg ttgtgaatct aatttctaag ggttgatgatt ttcacatcc 300
 ttgtgctact tgcattatta aaagcatagg tgagcttaca gctgatggag actccctgag 360
 ttggaggcat gcattgaggg aggcaaatga gttggtaaatt tctgtctaatt ctct 414

<210> 3804
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3804

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 taagaaagag aaatccaaaa gtgaaacatc cgattgattt tttcgcttta ttttactaaa 120
 agatattttt taattatatt attattttat ctcttttttag tttccaacgt ggttacggta 180
 cgacggaacg gtcggatttc attttagcat aaattaatgg atattacaaa tcaaacgatc 240
 ggtggaaatt tattttattt tttgattagg agagaaaatg acttaagtaa atgactgaag 300
 cacgtcaaaa ggggtacgaa aagtaaatga nacgag 336

<210> 3805
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3805

ntgaggggtgc gcagcccacc atcttttcat agtagagtat cgataatgtg tctaccatca 60

cgattatcgt ctccctttcc attattgggg gtaccacctg tgccgccaga tccctccacc 120
 ttttgggcgt gttctttgaa tgaaccgccc ccctttttgc acatgttctg tagttgcac 180
 ctatccggaa ccatatcaaa attgtactga tacggcctaa caaaggcaac cattaggtcc 240
 ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta 300
 agactttctt ggaaggaatg tatcagcaat tcctcatctt ttgcgtattc ccccatcttc 360
 tgacagtaca tcttttagat 379

<210> 3806
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3806

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 tcaaggtaga ggggtctttc cacttcttga accctaacct tggtgtcttt ggaagctagc 120
 cttcattgcc tggtgttttg atgttcaaatt attcgtagct attgtcttgg ctggaactgg 180
 aggatacatt actttttatt tttatttttt tgaaacttta aggttaaaaa tgatttcttt 240
 gggcgtcaaa acttaggggt agccttaaat ttcacttana tcggagttta aggatatttt 300
 gtaggattga atctgtcacg aaattaaaat ggtggttatg actatatgga atttttcctt 360
 aaagatctga ctanaaaatg aagttgctat gtgtgaaata tagggtagca tgt 413

<210> 3807
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3807

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 ggtcatcaaa tattgcacat cttttaaagc acaaagcgag gatcggaact tacgttcttt 120
 ttaaaaggct gcgatgagaa aattacagag gacatgaatc cctaggggaa accaagaaga 180
 acacacaaaa gtagcgactt cctcaattac cccagatctt aagcatagta tcgcttgaca 240
 acgttgaggt tcacgggtga aggtagctcc tcgtcatcca tgttggcgag cactagggcc 300

cctctggaga aagccctttt tacaacgaaa gacccttcgt agttcggggc ccactctcct 360
ctgttgtctt tcagagcttg gcagactntc ttcagcacta agt 403

<210> 3808
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3808

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gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
tctatttttc tttttactta agttatgaat tcccttaatg acaatcttct taaatattaa 180
ttcaaatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcggccaca cccttggtgcc tacgtccagt 300
ccccaagcaa cccgcttgag agttacacta acttgtaa at tccttttaca agttctaaac 360
acacaaggac aacccttcct ttgtgttttag agat 394

<210> 3809
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3809

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gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
ctggtcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggg catgtgatgc 180
tagggctcag gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ccgngaaaa cttcacagca 300
ttcacccttc aggtgtatac acattttttt caaaaactag ttatgatcaa ctgaattttt 360
tcaaagaaaa gttggaaatc atctcttttc aaagcatgtc ggttttta 408

<210> 3810
<211> 380

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3810

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 aaaggcacia ataattcatt cagagtgaag actgaaaatt aataaaataa ttaaaaatct 120
 tatgacttcg atcaaagacg gttttataaa aaccatcggt aacggctaaa aatagttggc 180
 attaatttca aaaatgccac caaatgtttt actacatcga tttttcaata accgacgtag 240
 atacaacgac gcagaaagac gctnttctag tagtgaaaga aagaaaacaa tcctatacat 300
 aaaaaagaaa gaaagtaaac tttgaacggt ttatgggttt aaccacaacc acaacanttc 360
 taatggactt gtttcattat 380

<210> 3811
 <211> 411
 <212> DNA
 <213> Glycine max

 <400> 3811

 tagctacaca cacccttcta ataactaagc tcaccttctt gagaagcttc cttgagaaac 60
 ttcttcagaa gcttccttga gaagattcct agagaaacta aagcttagct acacacaccc 120
 ctctaatagc taagttcacc tccttgagat gagaagctag agcttaacta cacacaaccc 180
 ctataatagc taaactcatc cccatgccaa aatacatgaa aatacaaaaa aatccctact 240
 acaaagacta ctcaaaatgc cttgaaatac aaggctaaaa ccctagacta ctagaatggc 300
 caaaatacaa ggcccaaaag aaggaaaaac ctaatttaat atttacaag aagagtcgac 360
 ccaaccttgg cccatgggct cagatatcta gctgaggtt catgagaacc c 411

<210> 3812
 <211> 376
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3812

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 naagattaaa aaaaaagcc aaattgtccc aaacaatgct ctctcaagta ggatcaatat 120

ctgaaaaatg aaatgttaaa tttagaaatc taagtaaata ttgattccta atttttttaa 180
 tgttggaag acttggaaga caaaaattgc attaaaatag aaaatgcaaa acatatagtg 240
 ggactgagac acattagcag cgtttcctca actcaaaaat tataagaatc agaagtaaag 300
 agtatgttaa gagtgtggta acatactcta acaagctttg atcaaatgac taaaattaat 360
 tgggcaaaaa gatatt 376

<210> 3813
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3813

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 gggcggttgaa gagacagcat gggatatctc ttccttcctt tttgcccccg ttgtcccgat 120
 tcttttggca ttcgcactcg tgaaggaaac gtaatcgaac tttcctcttt tcaatcctac 180
 cttgattctt ttcccgcgca acactatgtc cgcgaagctg gacgacatgt aacctactag 240
 cttctcatag tagaactctg gcaacgtgtc taccatcata gtgatcatct ctctctcgac 300
 catcggagga gccacttggt ctgccaggtc tctccaccgc tgtgcgtatt ctataaagg 360
 ttgcacctct ttcttgacat attctgcagc tgagtgcgat cggga 405

<210> 3814
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 3814

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 tctcgttttg tttacttttt ataccctctg ttgacgtgct taagccattt tacttaagtc 120
 atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180
 attaaactcg ggtaaaataa attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
 aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300
 aatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaatgg attaataact 360

aaagtgaaac taaggctaaa atcaactcgc ctagtcaag 399

<210> 3815
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 3815

tgcattgattt acattctccc cctttcttaa gcaaattctt aattcttctt gacatcatca 60
 aaatcttcat gatttacaca aatagttttg tctagttatt ttgctagaag tataccaatt 120
 ttatatacct tcaaatttgc acatgcattt ttcctttcta attaaaatta tcttaatctg 180
 ttgtaattaa tggtaaaaatt tattttctta atctattgta attaataatta aaatttaatt 240
 taataattaa tatttaaattg atagattaaa tataaataat acataaacct cttattttta 300
 tttaatatat catttaaata tttatttatt agataaattt taccattaat attaattaca 360
 atcatgctaa tatatattat ttttaattat ttatattttt tctgatg 407

<210> 3816
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3816

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 ttgtttctac gctagctagc actgtcttgg atgcgtacca agtagaactt atgccaatta 120
 aagctgcacc aattttaact gtgtctctgc taaattggca ccaacttatt accccctata 180
 ttaaagacaa aataactcca tctacttcaa tcaaatatc cttctttcat gatctttctt 240
 tcaccagcta gctatgcacc cattccaaag ttaatttaag ttgatactgt aggggtggctt 300
 cataattaat acttgtctgg gttgttttaa gaaagatttt tatttaagga aaatcgatct 360
 tgaaagagaa tcattaaatt cgactatatg atatatatta atta 404

<210> 3817
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3817

tactatctta acacgtgaac canacgttnt catgtacatt ttttttagcga cagtgtctta 60
ttaagtgcga catattgctt tggaagcaag gttacgatca ccggaaacaa cgggtgtctct 120
tgatcggtat caccggtttt tttctgatgg atttttttca ccatgatttc attcaaattg 180
acaaattcta gagcatgact tagtgtggag agaccaactt acatatttgt agggagtttg 240
ggccttggtg tagggcccat cgccaactgg taagcctgtt accataaata ttatcctact 300
tttatgatgg aaaggaataa ttgtccaaaa taattatgtg tagagcaatg ccaatgccaa 360
tgccatgcgt cccanagtgg aaatcaacta ggatttgcgt ttacgaaata naatactgat 420
ttgatg 426

<210> 3818

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3818

agctnttana attattttcg cctctttctt ctaataggag atcagggaca gttgggttgtt 60
gataatacag ttttaagggt gttttccaat gtttggaatt tattggatta atgtcttttt 120
ccgatactga acctatttca attgtttttt ctaaattttg gtcactatct tcattaatga 180
aattaattaa tttggaggtg cttcttggtt ccatttttga agttcctttt gaagggtggg 240
gagtttcaag gatgactcta agtaaactat caagcttgtt taataattca ctattattgt 300
cacctactcc ttctataacg gacttgtttt tccttagttc cctaattttt tgttatcctt 360
gtcactaatc ttgnaagggt tgaataaagg ttttctatg 399

<210> 3819

<211> 429

<212> DNA

<213> Glycine max

<400> 3819

tgaggtcctt cattgcaaag atgtttttca agatactata ctcatctggc acttcaatat 60
tcaaacttct tgcgatgacg agaagagagg ggaaagcaac ttcaaaccg ataggcatat 120
gttctgcatt ttcatcctga agcttgtaca aattctcctt aaaaaatgac attcctgtta 180

catatgaatg catatataca caatagaaac attaaattaa cataaacgtg ctgataaaaa 240
aataacattt atatcataat actttactat ttcccggtcc tcttctttta ctatggaata 300
gaggtgtgaa agtattgcag aaaagaaatg attaagagta tgtatctaac aaaagaaatg 360
attaagagta tgaaaatatac tgggttaaaa aaaaaagagt acgacaatat cacagtcagc 420
aaggaattc 429

<210> 3820
<211> 274
<212> DNA
<213> Glycine max

<400> 3820

aataaaatac cagaatgcc aatgtgaggg gcccaaaca aactcacata aaacaaaatc 60
tatagctagg aagatcaaata ttttctctaa aggaaaactc tttaataggg taaactatat 120
ctgaccaaata aaaactcacc tcatgaatac ccaaattagc tacaccactt gtacaactat 180
ttccctctct aaaaataaga gacaccacaa aattcaatga atttgtgtaa gaaacaattc 240
atctagcaat ttctcaagtt ccacggcaca atgg 274

<210> 3821
<211> 421
<212> DNA
<213> Glycine max

<400> 3821

taacaaaaca catggaaatc aaattattaa ttgataaatg aagtcattca ctcatgccat 60
actccttaaa ataaaaataa aaaaaaaaga gtagaaacta aagctgtaca gaccatatta 120
actaaaagaa attcaagatt gaatgatata taaacaaaaa gcaatctagc atcaactgtc 180
ataaacacag attttatcca aatagaatac acttatacac ccataatgag aaatgagaca 240
gccacaacct aaagtcccaa actaattgag ttccaattct atcagcattt tataacaacac 300
acaacaatcc cttcaattat tatcactcaa aaaatcttat aaatagggaa aggaacagg 360
gttgtacctg tggcaccatg agcaaaatga cacttattgc caaaggggca atacctgtc 420
a 421

<210> 3822
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3822

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 ttaccctcgg aagcaaaaaa aaaggggaga gggaaaattt ccaatcaaag aggaagcaaa 120
 aaaggagaga aggaaaattt ccaatcaaag gaaaaaaaga gaggaaaggg aattcccaat 180
 caaagagtgg gagaaagcaa aaagaaaaga aagaaaattc ccaatcaaag aatgggagaa 240
 agaaaaaaga gaagaagaaa gggaagaaag ttcccgatca aaaaaaaaaa taatatgcag 300
 aaaggtcttt ggaccggaca atatctgaac aatacagaat tgtcaccaa tgaata 356

<210> 3823
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 3823

tataagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattagg atgcatcaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcacaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacacttac ccattttcttg aacatatcct ataattcaaa gataaacatg 300
 caaagtcgta cgtgcacaca aattgaccca aaatattaaa ctaaaaatcc gacgaaacta 360
 acaacattaa caaattaaca caactaaca attaacaaaa ccaacaaaac tagcaaaacc 420
 aaagaacact 430

<210> 3824
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 3824

tcctctcagt cacctgcggc atgcaagctt gtaaaaaggg aagcaagtta aaaactcttt 60

tcaaagtaaa aacgttggtt ctacttcaaa accctttgaa ctacttcaca tagacttatt 120
 tgggtgctct aaaactatga gtttgggtgg gaattactat ggcttagtta tagtagatga 180
 ttactcaaga ttcacatgga ctttggtttt gaaaaccaa gatgaagctt ttgatgggtg 240
 ttgcacactt gccaaagtca ttcaaaatga aaaaaggctt taacattgtt tcacttagaa 300
 gttatcatgg aggtgaattt caaatgagtc tcttgaaatg tttgtgagaa aat 353

<210> 3825
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 3825

tgaagggtgtg tagtccacca tcttttcata gtagaatact agtaatgtgt ctactatcat 60
 tgttatcatt ttttctcctt cattgaggtg ccacttgagc ttccaggctt ctttaccttt 120
 gggcgtattc tttgaaagat ctgtgccctt ttttgcacat gttctgttgt tgcacccat 180
 ccggaaccat atcaaaattg tactgatact gcctaacgaa ggcaaccatt aggtccttcc 240
 aagagtggac tcgagaagg tccagggttag tgtaccaagt aacagctacc ccagtaatat 300
 tttcttgga ggaatgtatc agcaattcct catcttttgc gtatgcccc atcttccgat 360
 aatacatctt tagatgggtt ttgggg 386

<210> 3826
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 3826

agcttcattg cttcatgatg atgaatcatg attgattcaa ggtgttttga tgataacaaa 60
 gatgatggca aaaagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 120
 caagagaaaag attcaagaga agtttcaagt ttcaagtttt caagaatcaa gaataatcaa 180
 gatcaagatt caagactcaa gattcaagaa tcaagaaaag gctcaatcaa gataagtaca 240
 aaaaagtttt tcaaaacatt gagtagcaca tgaagtttt acaaaagctt ttaccaaaaga 300
 gtttttactc tcgggtaatc gagataatca attaccggtt tactgtaatc gattaccaat 360
 ggcaactttt tgttttcaaa agctttaact ggattataac 400

<210> 3827
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 3827

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tcttctatat atagacttca tcttcaagta tctattgtct tacaaccggt ggattcttca 60
cggttcttcg tctgaggctc tgaaactggt agagcattta atgcttgcac taaatgtaca 120
tccctttttt catgcaaatt ccatgcttga taggttggca tgtcttgtac ttcagtaaga 180
aagtcacttc ttccatcata ataggtctgc actagcaaat catgcctttt gatgaagatc 240
ataactttca gactgtagac ttcatttatt cttcatagaa ctttgacaaa tcccaggaga 300
atgttttatg caagagagaa tcttagacac agattattaa atgacgatct taaatgcact 360
ccttaatgat atgctagatt gtcttatatg gacgtatggt tgaaaac 407
```

<210> 3828
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3828

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agcttggtga cacctttctc cggccaattt attggttaagn ttcctattgt tatactcaag 60
aatctcttgc tttgcaaagt atctatatgt ttcacacccc atacatttgg gtaactcatt 120
gatatttaac acaaactttt attatgcaga ttaacagggt gaagctccaa ttatgattaa 180
aaaacagcgt gaaaaaacat ttaagaaact acatttaagt tttgtccatg gaattaaact 240
ttcatatttg tcccttaaag tataagcaac aatcactcta atcctgattt ttttaaaggg 300
aaaaatatgc ggacaccttt acagactatg tctctttata tctcttatcc tatcacagta 360
tatattttca gctatgatgc ctacactttt ctctaggtgt catttagctc tt 412
```

<210> 3829
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3829

acagcttoga tntaatcatt catgggtccc acccaagcta gcctcttcgc cacactgatt 60
tattgtaagca aagtttgatg aagaccaact tcctagcata atggggccaag gaattttcag 120
aagaccaact aacaactttg cttttattat ttcaatgttt ttaaagacct ttatgacttg 180
ggcogtgaga tctagatttg atttggagat ggtgttcaag aagccccaca tgattaagct 240
cttttttaggt gccaggaagt aaaattgtta ttgtatattg attttgattt gattaagggc 300
tacaaaaatt ataaatgact atatttctag ttgttataat ttactaaacc gctattaatt 360
tatgaggatc ccaatctctg acattagtgt gattaaatga actaaaccaa ttcatatcat 420
gt 422

<210> 3830
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3830

agcttgggtg gatgtgtgta catatcattg tagaattctc aaatacaata acagatcatg 60
gtctcattga ggtacaaaacc cataccttcc aagttctgga tgtcgaagaa gtgttcaata 120
tggacgatta cttcgttctt agtgtgaatt aacattgtct caatcttagg aatgtgctct 180
tcatacgatg aggcattcact tccacttgac attgttggaa agattaaagc ttttttggat 240
aggggtttttg tttaggggtt aagaacgggt gggagagaga aagagtttag gggtttcttc 300
ttctcttcca ttattggcat tggaagttgt tgattcattg tcatcccaag ngatatatto 360
cttcttcttt gtgttgaatg aacccttatt cttcttctct catt 404

<210> 3831
<211> 412
<212> DNA
<213> Glycine max
<400> 3831

tggttggtatg tgatcaaaga agatgtcatc ttatctatct ctgaatttca ttctcatgg 60
tccattccta cgagtgggaa cacgtcattt ctagctctaa ttccaaaaaa ggagaaccca 120
caagaattaa gtgaatacat actcttatta ggtgcattta taaaattatt gatgaacttc 180
tagcaaagag attgagatgt attatagggg tggttggtgga tgacaggcaa ttcacgtttc 240

tgggagatag gaacatgtta gatggagtgg tcattaccaa tgaagtgatt caagaggaaa 300
 atcgttaagt taaatcatgt gtggtgttca agacaaatcc tggagtgggc attgtcaatg 360
 aagtgattca tgaggcctac cagtttgggg ccgatgcttc tagactaact ac 412

<210> 3832
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 3832

agcttataag aacatatttg cctcaatcat ttccaaatat gcatgtgaat tatgaagcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaagt 120
 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgtcag gtagaggaaa aacaaggatt tcaaatacaca aaatgtcaag 240
 aggctttttt tttcaaaaca attacccatt tcttgaacat atcctataat tcaaagaaaa 300
 acatgcaaag tcgtacatgc acacagaatt gacccaaaat attaaactag aaacccaatg 360
 aaactaaca cattaacaaa ttaacacaac taacaaatta acaaaaccg 409

<210> 3833
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3833

ntctaaagtt ntttggtttt tccatacctt gaaaaaaaaa agtgtgctat tcatttttct 60
 ttctcttctc cctttgctaa aaagaattcg ccaaggacta accgcctaaa ttctttttgt 120
 gtctctcttc tcccttttcc aaaagaacga aggactaacc gcctaaattc ttttgtgtct 180
 cccttctccc ttgtcaaaga attcaaaacg acacagtctg agaattcttt tgattcttcc 240
 ctttccctta tacaaaagat ttcaaaggac taaccgcctg agatatcttt tgtatccccc 300
 ttcacaaagt ttcacaggac tagccccctg agatctttgt cttaacacat tggagggtac 360
 atcctttgtg gtacaagtag aggggtacaac tacttggg 398

<210> 3834

<211> 561
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3834

cacgcgtcca ccactactca catanaanta ctatanntgn ttntantnta acatnnnnan 60
 nnaanacacc cgacgaagcg nngattgac ccctngagaa tcgaanccac tcgaaccctg 120
 agacactcta taaactcacg ctcacaacag caggcggcgc agaatacaca tctactgagt 180
 tcaggtcatt ttgtgcaaca aatggcacga aacatcaagt gacagcacc tatactccac 240
 aacaacatgg ggggtggacag agaaagaata cgaccctctg cgaatatgct gagaagcacg 300
 accaaagaaa aggggttcacc aacccatctg tggggcggaag caactgctac tgcagctcat 360
 ttgtagaaca gatgtccaac caagagagta gagcatgcac acccgaataa gctcggcagg 420
 aatcaaaccg tgtgtgaaac atctgagaac gcttggtcca ttgtgcccc tgcacacacc 480
 cgaacaattg agtaagaagc cagatgacac ggctcaatcc ggcgtcacgg ccggatatca 540
 ctaacaaggt gatacaaatc g 561

<210> 3835
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3835

agcttnttgg agtagaaaca tggttccttc tcattttatt tcaaaaagtt gtatctagtc 60
 aaggctctgag agaccataca agtttcctag cgattttctaa ttatgtgggc cattaagtct 120
 atcatagcgt gacaatagct aagaagccca tgaatttctt tgggggcgga gtaggtgtcc 180
 gccatcgct tggcctttgg ctaacaatcg ggaagttctt gactcccggt caaggtaaga 240
 gcanaccgat tcatccacat gggtgctctt tgggtgtaaag agtcgatcac ccttctctta 300
 gcctcttttt ccgcgtatat ntgggcatac tcgtccgcga ccctatgctc gtgggcccgtg 360
 gctagacctt actcttcttg gtact 385

<210> 3836
 <211> 374
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3836

tattgttttaa ctactctntg agtgtgtgat tctttatatt ccataaaaca ttgtgttttt 60
gaaagtcatg agtggccttag tgaattggtg ctggcagctt gaacatgcga acttgtaaca 120
attactggga attggtcact acgaattttg agctganatt tttactgcat tntctagaca 180
tttgaaaaaa taattagaaa aaaagaacca agtgatttgg ataaaaggaa aaaataatca 240
taatcacaca agttggcggg aaaatcagtg tccaagataa atagtgaag ggaagtgtgc 300
ttgttgtttt ggctcanaat ttgttctata attggtgcct attttatacc aatcttagtt 360
ctgacaattc aatt 374

<210> 3837

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3837

agcttgtttg aaacctgagg gatgcctata gcagtcacct tcctagttac caaccaaacc 60
tttgtgcccc tgcttgttcc acgtcggacc aaagaaaaag gaaacagaaa aggaaaaggc 120
cgaaacaccc aaaagccaaa ttccccacca aaattcaact tcctaaaagt cctattggcc 180
catgattatg catgttatcg ttgatttgat aggaaatgat ttgcaaagtc aaatcatgac 240
atatctatgg tttggaatta ggatgaaaca cttgcatgtg tgagatttta tacactntga 300
gtgggttttcc tctatttcat tcgcacccag tgtttcttct aaatgccctt ttagaaatga 360
aatgctaata tcccacaatc tca 383

<210> 3838

<211> 387

<212> DNA

<213> Glycine max

<400> 3838

tctcaaggag gtgagcttag ttatgagagg ggtgtgtgta gctaagctct agcttcttaa 60
ggaagttttc tcaaagaagc ttctcaagga agttttctca agaaatcttc tcaaggaagc 120

tacctagtct ataaatagaa gcatgtgtaa cacttggtgt aactttgatg aatgagagtc 180
 ttatgagaca actcaaagtt caactttctct cccttttttt cttccttcaa tttcgtgctc 240
 cccctctct ctttctctcc ctctttcttt tcttccattg aagcatcctc tccaagcttc 300
 ttatccaagg ctcatcttgg tggngaagct ccttcttcca tggcttattc cctagtggat 360
 ggcgctcct ctacactctt ctcttt 387

<210> 3839
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 3839

acaaagaata gggtcattca taagcttattc ttttaataaa ttataagttt tctcatgcac 60
 atcagtcacac ttgaacacca catccttttt tacaagttca tttaaagggtg cagcaagtga 120
 actagctaaa ccacgaaaac ttcttacctc attagcattc ttaggtacag gctattccct 180
 aagtgccttt actttttctt cctcaacact tattcctttt gagctagtga caaaacctaa 240
 gaatacaaca aattcatggc aaaaagaaca cttttaaaga ttggcacaca atttattttc 300
 tctcaaaaca ttaaaaataa catgtaaatg atcaacatgt tcctctaata tttgctataa 360
 atcaaaatat catcaaaata caccacaaca 390

<210> 3840
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3840

tacgaaccca aactttntaa acttcaatgc aagaaaacat actcatgact aggaacccaa 60
 agtttgggtt taggattaga aaagcatgaa aatagggact tgtttgtaaa aatttgggct 120
 gcccctgat tggcactttg cacctaagta acgtgggaga tgcttttcaa tgggtgtgtag 180
 ataagtgtgt aaatatatat ggcataaaaa tatgtatata tgtgaatata tggcatgaaa 240
 ataccttgca aagtgaatga atagtaaata atgcatttca aaaatgtata tttatggata 300
 ggtagcgtaa aaataccttt taaaatatgt atatttgtgg ataggtagca taagaagcct 360
 ttcaaaaaaa aaaatgtacc catgccaaaa atggcacaag aatgcttccc aatgaatat 420

atgatgtgga 430

<210> 3841
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3841

agcttcaccg gatgatgccg atcgaacatt tcctaatacga catcatccaa ttgttattca 60
gggattgaat aaaataaaca atggccggtg tcggtcggtta tatggccccg actgatatct 120
ttcagccgac attgcgcaat ttctttttaca aacgctagcg ataatgtttt tttttttgtt 180
ttttacggta gaggaagttt tttgttttgg tgttgccctaa aaaatttaca atgtaggtcg 240
gctaggtttt tccgtgcgag ctcaaccgag ggttcgttcc gaccgacact ggcattgtagt 300
tcttctcatt taagaggaca agacaacgtt ggcccatccc ggcaaaaaca nnnaaaaaaaa 360
cattatcacg gaaattgatc gaaaaaaatg 390

<210> 3842
<211> 433
<212> DNA
<213> Glycine max

<400> 3842

ctcagcttat taagaggctt ctagcacact ccagacatct tctcatagat cccaacggtc 60
agatcatgga agcgtgtttt gtgaagttgc agaccacatt tcgagacgat ccaacggtta 120
atgaaggcca ggaagcgttt ttaccgaggc agcttcatgt agctttctct agaagcttca 180
ttaagaggct tcctctagaa gcttcctcgt ggcttctttg agaagttttc tcaagaggct 240
tctttgagaa gctacatcct tatctatcca tccctctatt aactaaatta acttccttaa 300
aaataattac ggatgaaaat aacgcaacaa ataatcaaac atcaaacata attactaata 360
atatatagat atatatatca ggggtgttaca catcatatat tgagacgctc gaaattgaac 420
aatggaagct ctc 433

<210> 3843
<211> 413
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3843

agcttgangg attggtcttt gccagtgaag ggatcgatgt ggggccgaaa agaggcaaat 60
ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120
gagaaaccca tgctgtgact gccattccta tacggccaag tttcccacca acccaacaat 180
gtcattactc agccaataac aaacctctc cttaccacc aaccagttat ccataaaggc 240
catccctaaa tcaaccacaa agtctgtcta cgcactttc aatgacgaac accaccttta 300
gcaaaaccaa aaacaccaac caaaaatgaa ttttgacgag agaaagcctg tagaattcac 360
cccaattcca gtgtcctatg ctgacttntc tccatatcta cttgataatt caa 413

<210> 3844

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3844

ntgcttgctt ctacagcagc aaagtttccc taaggtagctt acaattttta cgtgactttg 60
ttcagtgcag cacatatgca tggggacctg ccgtgcatct taatccaaat gtaggcattg 120
gaacgatgca cgactttggc tccaaagagg acttctcccg taataaaaaa taaatcactc 180
ggacacaagt tacttatttt aaaaataaga tttcatttga aaataattaa taatgtaacg 240
cgagtccact gatgatttca tattttttta ggtggttgca acgtggaaat cagcatattg 300
gcaatgatga tctaatagtt ttttggtgca aattggatat catgaaacga catgaggtaa 360
gaagatcgta atgtattcgt taaacaataa atacaatgtc atgtttaagt gaaaattaac 420
aatt 424

<210> 3845

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3845

agcttagcta ttntccgtcc attntcttca agagtaatta ataattatta tcattttgga 60

tgggaaaata aaagggttgc tgcaaccaat ttggttccat actaaccacc ctttggatcc 120
 aaggttttca tggaaatatt gaatttgact ttatctttgt tctttgggtt ttggaacaag 180
 atatttgatg tatgtcccaa caaaagtgc cgcaccaac ttaggaaaca acatgcatgg 240
 ccttaaatac actaaacaat ttaagggatn gtttggttga ctgtttttta ttttcatttt 300
 cactgaaaac aggaaatggt aataaaaata tgtttggttg gatttttgaa aacattttca 360
 gtgaaaatga aaattaanac aaccagaaaa tgaanataat aaaatttcgt tttcagtatt 420
 tcaattg 427

<210> 3846
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3846

tgcanagctg aaaggacaaa ggtacgtggg tgaagaatcg tggaaaaagg attgcttgaa 60
 catctgtgaa agcactgcat gaaaaaagaa tggaaaccaa cggtcataaa tgataaaata 120
 gatccaaaaa actgtttttt tttttcttat aaatattctc ttccgatggg acttttgttc 180
 aaaacattat tgaatacgaa attgaattaa actctttttt tctaacaaag attcacacct 240
 taatttattg agttaggagg gactaacctt tattgctata cccaagctcc cataatacga 300
 aataaatcat ttttgtaata gagaattaaa tagctcaatt ttttaatggt aaaaataaaa 360
 tagtgtggat atacctatgc ttttttaccg ttaaaaatgt tttatatatt aactatatat 420
 tatctttt 428

<210> 3847
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 3847

gtcacctgag gcatgcaagc ttgatgtcat tcaaaagaca ctatgtcgac ctaaattgatg 60
 actaaacatg cattgtttat gtaattggat taattatgcg atataatttg gtgtaaccca 120
 ttactaacta attaataatta ttaagtactc gtttggttaa acaaaaaaat tgtcgggtcca 180

acaaaaatca tttagcgta tagcatacat cattgtcata attgacaaca cataatgaca 240
 tgcattcgta ttaaagtttg agcgcgacaa cacattgact gacttgacta cacattttga 300
 agggaaaaata aacacgaaaa tgttcacgag tgtctatttt tttgtaaac 349

<210> 3848
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 3848

tgaatacaat gaaactcgct agcttagcaa cactaagatt tactcaattc gctcaagttt 60
 cattcgcca atagattgat agtgttacia gactttattc gttttgtcta agattattct 120
 cttgtgattt gacaacctta acacaaacat cttcaagctt tatatggact tcagagcttc 180
 gatattgtga gagatccag ccagtcgtta tctaatagct ttgatgcttg acacgaagcc 240
 actactgtgt agaaagagag tggggaccat aaatactttc tgcaacatat cttcagaaaa 300
 gtacaattcg ctagtgtcgc ctagtgtca gagccgactt tcaacgtaca aatcaaaaaa 360
 aatgttaacg acataagaca aa 382

<210> 3849
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3849

agcttgaagg caaattggat gcattggta acttggtaac ccagctggcc ttgaacaaaa 60
 aatttgacc tgttgcaagg gtctgtggtt tgtgtcctc tgtgaccac catacagacc 120
 ttgccccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gctgctaata 180
 tttaaatag acctcctcaa cctcagcagc aagatcaacc acagcaaaat aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcana tggctagcc 300
 ctcagcaaca acaacagcag cctgtcctt cttcaaaaat gttgctggcc caagcagacc 360
 atacattcct ccaccaatcc aacaacagca acag 394

<210> 3850
 <211> 412

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3850

 ntgatctacc accaccaccg ccaccatcat cttagttttc tattatgttt aacattatta 60
 gtactttgat ttctagccat gtatttggct atattattat gacatttgaa caatttagta 120
 tttcatttat ttgcatagta tgattgaaca attatgaatt atgttaaag actatgtggt 180
 ttttatatat ttgatctatt catgttactt gcttcatgat tggtttatat ttttcaatga 240
 atatcttgtg aatgattagt aatgtatgta tgttttatat ttgttacgca ctttggcttt 300
 ttgttgatgc caaaggggga gagaaatggg gattaaatca agaactcaca taagtaatta 360
 acttaatttc aagtgaagca tataactcaaa aacaaagggg gagaatatgg ag 412

<210> 3851
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3851

 agcttgggta gagtttgtct tgtgcagtaa gaagtgggtc tgacaaaata ctcataactt 60
 tgagaaagtt attgaaactt gggtactagc taagaactga atgtaatctc agtggttagaa 120
 acaagccaac ataattttgt gtcttatgta ctctactta taactttgag tttgattttt 180
 ttaaaatctc tattaattag aaaaatttgt tttcatcgtc tgatcgtgct tttttttttt 240
 tgaaaatctg ttatatgtct tatgcaatgt ttctttatat aacaatcttg ttctttttaga 300
 agaaagggct ttaaaagttt ataanaatac aattcaagcc ctttattggg ttattngctt 360
 tataatantt aaaaaataaa taaaaaat 387

<210> 3852
 <211> 418
 <212> DNA
 <213> Glycine max

 <400> 3852

 tgacacattc ttgataacaa gacaaacttc atttgccttct tgtttgtgac aactttgttt 60
 tcatccaaat gattttttgc atgagaatgt tttaaatagg aaaaaattaa ttttcatgag 120

aaataaattt tgaaaaaata tataatgcac aactaacctg gtagaattgt tgtctagaaa 180
 ttttcccaaa ttattataaa gtgatatcat aatatttaga aattttcttg cgaaaatact 240
 gttgtagggc aacaaaggaa caataattat gaaaaataga ttcttgtaat ttgtttggct 300
 cgagaaaagt atatgacata ttattaaggt taaggaaact ccctattaaa ttttataaaa 360
 ttcagagtta tctaagtatt ttttatattt aaaaatagca tttcagaata atttttagt 418

<210> 3853
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3853 ,

agcttcatac tgcataattat tatgaaaata caatgttgaa agatcaatcc gacatcactt 60
 atcaacaaga gtccaattca atatggatac aattaatatg tcttagtcta attgtatggt 120
 gaagaaccac ctacaactaa aggtcataat aaaaagagtg cagaaaagca attgggagaa 180
 ttgaatgatt aatttaacaa attgcaagaa aagaaagga aatcgagtga tttgcataac 240
 atttccagta aggcaatcaa ggggagtcgg aagggaagt tgagatgaat ggctataaga 300
 aaggagttgg gcagaagata gagccaggaa aagtagaggg agagtgctag ttctctcata 360
 tgccatgtgt tgtcttttta tagtttcagt ctttaattgt cattgtgagg ggataata 418

<210> 3854
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 3854

tctgaaatat gaagtattaa cctatcaagg ctatcgttcc ctttaacatg accctgacca 60
 ttctcagaac tccgcctaag tgaatgtacc tcttggtcgt agtctcttat tcctttggca 120
 aactcatcac acaaattctc caaaaggatc cgtgcttttc tctctctttc aagatttctc 180
 aaacaaccag agaaggaaga cttcacttca gaaagctccc tagccagctt ccgatgcagg 240
 ctttctgaat gctgacgtaa cctcctctca ttttctagct cttccctgat tgattgaact 300
 gcagctttta ttctaccatg ttctttgttc ttctaataa gtttgtcaat tgtaatttcc 360
 tttatcaagt tctccacttc ctgcctattc atttgattct ctgtagtaa c 411

<210> 3855
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3855

agctntgagc caattcaaac gacaatatct ttntactccg atgtctgatt gagtcccttc 60
 atatatcgag acgctcgaaa ttgaatggtg aagctctgag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtcccggt aatatatcga gacgctctaa attgaatggt 180
 gaacctctga gctaattcaa acgacactaa ctttatactc ggatgtctga ttgagtgccg 240
 taacatatcg agacgctcga aattgaatgt tgaacctcta agccaattaa aacgacaata 300
 aacgtttact cggatgtctg attgagtcctc gtcatatat 339

<210> 3856
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3856

tcaacattca attntgagcg tctcgatata tgacgggact caatcataca ttcgagtaaa 60
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 120
 attgcgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcggag 180
 cttcaacatt caatttcgag cgtctcgata tatgatggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa ttggctcgga gcttcaacat tcaatttcga gcgtctcgat 300
 atatgacgag actcaatcag acatccgagt aaaacgttat tgacgtttga attggctcgg 360
 agcttcaaca ttcaatttcg agcgtctcga tatatta 397

<210> 3857
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 3857

agcttgaatg aattaccacg aggcggggttc tgtaacgact atacatgact ctgaaggcgc 60

ctgttcattt cagagggcca tgtgccatct acggcgctga tctttgtggt gactgatgag 120
accacaactt ccagcgtact gctggtgacc taatcaatcg actatcttta caggtattct 180
gtaccttgta ctggacttga gaataacatt aatcgtgtca tttgtcgtct gaacagcgac 240
cttggcattg aattagtgac cttagggttt agtgtcatgt g 281

<210> 3858
<211> 154
<212> DNA
<213> Glycine max

<400> 3858

ctgtggctga caaatgctat atagcagctt cataggtcta atttaggccg cccctctct 60
ccctcgcggg agacattatc tatccctgct atctctattc tagttgccga aggtagggcc 120
aagaactctt atctttacat gctatttaag cata 154

<210> 3859
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3859

agcttattct atttatagca ttcgtcttga agtatttggt gtctctcaat ggatggattc 60
ttcactctac tcttcatcta aagtcttgag gttgttagag catttaatgc ttgcattaaa 120
tgtacgcccc ttcttcatga aaattccatg ttgatagggt gacgtgctta cacttcacca 180
agaaagtcatt taattccatt atagcaagtc tacatcaaca tagcacgtct tttgatgaag 240
atcaacaatt ccagaatgtg gactttattt attcttcata ggaatntgac agatttaagg 300
agaatatttt ttacaagaga aaatatttga catagagtat taaatgaagg tattanatgt 360
taggtcaaag cttgaagccc tttgtttagt ttt 393

<210> 3860
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3860

tgtaacctgg acacggttga tgcccaagat cacatctttt tttcgaaaaa ggcgtgcgaa 60
 cgaaagtgca caatacctac atatattttt tatttttatt tttattttta tttttatttt 120
 ttttgaggta ttttgctacc taaacatgtg tataattttg tgagatattt ttgctatata 180
 catgcatatc caaggtatct tactacctaa acatacatat atatattttg tgaggtattt 240
 ttgctatata catgcatatc taaggtattt tcactaccta aacatacata tatattntgt 300
 gaggtatgac taccttacga gcttgtgctt gttttattta aattcctagg atcatggaca 360
 attaggtgtg tcctactatg accaaagaaa caaaggtgat caaa 404

<210> 3861
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 3861

agctttgagc cagaatgctg actcactata taccttgatc cagcgtgaga atgccaatcc 60
 ttatcctcgg aagcaaaaca agaaggagaa ggaaaatttc aatcaaggac agagacgaga 120
 tttccatcta gaaaaaaagg tgagcagaga aattcccaat caatgagtgg gagaaagaaa 180
 tgtaggaatg aaaggatatt cccaacctaa gaatgggaga aagtataaag agatgaatgt 240
 tctagatcaa agaaactaga atatatatgc agagaggtct ttggaccgga caatatctga 300
 acaatacaga 310

<210> 3862
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 3862

tgcccagaga aggagtccac ggaggaaatg cttaccattt ctaaagactg gagagcggtt 60
 tctaatact cctctgtggc ttccacatca ggcatagagg atgggcagct caccaagatg 120
 tctttctcgc ctgagacgat gaccagatgc ccttccacta cgaatttcta cttttggtgg 180
 agtgtaagg gaacaactac cactgagtgg atccacgggc gcaccaacag acagctggac 240
 ggggggataa tatccattat ttggaaagta acttgacagg tgtgagggcc tatatgtact 300
 gtgagatcga tctctcccct agcctctcgg cgggtgccgt cgaacgctcg aaccaccatt 360

<210> 3863
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3863

agctcgaact cttgcacctc cttgaagttc aaccatgact tctcccaaac tttggcttca 60
 taaaccttct tttgccacc atcttttgcc tccaaagtga tgggtgtacaa ggtaccagaa 120
 accacttgct gtttcgcagt taccaccttt tcaaactcca aaagggcatt ctgcatagcc 180
 atttacaatt caataaaaat aaaatataat tcataattac cacaaaataa aaagaaaata 240
 gaagcccggt cgtggttatt gaaattgacc ctaccaatct atttattcct tgacataatg 300
 gaaatgcaaa tttatcctaa caatcaatta atttttggtg aacaaaattt tggnggaggg 360
 gtaatgcccc agtacaagac agaanaagcc tccaagctca aagaacattc aca 413

<210> 3864
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 3864

tccacaaaag gcatagttat ttccagtttc ctaacaatat caaggaatct cgctagatgg 60
 cagtctttgt ccttcttgga aggtaccaca ggatattggtta cttccgtagc ctcatttgaa 120
 gctttttctt tcttctctc tcttgctttc tcaactctac tcttttcttt cccttcttta 180
 tttttttcaa ctttttcttt ttcttcattt tctttttctt tttctacctc tatttctttt 240
 tcttggtcat ttatttcttt ctctcgacc attattgggt tttcaccctc ctgacttgtc 300
 acatttggtta cctcttcttt ctttttctca gtgccatcct ttacaacaat atgtttctcc 360
 aaagccacct tatcctcacc ctcaactacc aaatgcttct tgtttcttgt tatcacaaca 420
 ttaca 425

<210> 3865
 <211> 387
 <212> DNA

<213> Glycine max

<400> 3865

agcttatcac ctttatcggc aattgaaaaa agattttaat gtaagtcaag agcatgatag 60
tgtgtcgata ccattaactg gtcacagggtt ctttaagcagg ccgagggcat caatattgta 120
tttggaaga cccaagagaa ggaaaaaact aaaacttcca tatggaagaa gaggtcgata 180
ttgtttgatc ttccatactg gtatgatcta gatgtcagac attgtattga tgttatgcat 240
gttgagaaaa atgtgtgtga tagtgtcatt agcacactgg ttaacattca aagaaagaca 300
aaggatgggt tgaatactca ccaggatcta gtttagatag gtatacgaga ccagttacat 360
ccaaggtctg atggttaaca aatatac 387

<210> 3866

<211> 426

<212> DNA

<213> Glycine max

<400> 3866

tcttacatag tccgcctttg cttgaccttc tttatgctta aaaacagaaa cattaggcat 60
aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca 120
attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc 180
ccaagttttt aagttcttcc tcaaaaactgt tctaagcaaa gttcccaaag ttctattaac 240
aacttttggt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc 300
caacttgctc caciaagtcc tccaaaaatg gcttaggaac ttagagtccc tatcactaac 360
aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt ggcctcagaa 420
taatta 426

<210> 3867

<211> 282

<212> DNA

<213> Glycine max

<400> 3867

ctgcgcttcg agtgacacct actgctactt cacatttgat ctcaacggca gggctctctt 60
gcttttggcg ccgacagatt cttcacactc tcacctgata ccacaatcgg ttctcatctc 120

aatTTTTatg aaaaaacttg ttgtagtttt agcacgttca gtaatTTTCg ccgaggggta 180
 tttttttttt ttacaaaagg ggggattctt gttctaacgg gttattaaaa atttccataa 240
 tgaagtgagg ggataataat tgatatatac ttcctctatc tc 282

<210> 3868
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3868

ntgcacgtat cagtcaagtg tatggaccat atcatagcca aagtgtcat cgataatggt 60
 tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcttcccac 120
 ctaaagccga gttcaatggt ggttcgtgcc ttcgacggca cccgctgaga ggttaggggg 180
 gagatcgatc tcccgtaca gataggccct cacacctgtc aagttacctt ccaaataatg 240
 gatattaacc cccctacag ctgtctgctg gggcgggcgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcatct ggtcatcgta 360
 tcaggcgagg aagacatctt ggtgagctac ccctcctcta tgccttatgt ggaggccgca 420
 gaggagt 427

<210> 3869
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 3869

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 aagctagagc cttgttttcgg tgcctaatac cagcttccaa agttgctgat aactgttaaa 120
 tatgagttgt tttttattat aaaaatataa tgaaaatatc tttaaaatat ttatttaaca 180
 gttatttttt acttaaatat taaaaattga tatttttctt atttatggct tgtagatatg 240
 aaaaggaggg ataaaaatcca aaaatatgca gaaaatatca aaaatatgaa taaggaagat 300
 ttttgccatc aggtccaagt ccaactccaac aactataaaa aaggaatcaa gccaaagcaga 360
 aaagacacac cgagtctcag agcactctaa tacacaccta aagtctgaga actctccctt 420
 agaaatcttt cttctctctc a 441

<210> 3870
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 3870

tcttcattgc actaatgctc tcccttgaaa cagctccttc aggccatttt agatgtgatc 60
 cacgcttgaa atatttttct gcacccttgc tacatattga agagcaaatg aataaaaaag 120
 aagttactac atttaaaaaa tatatattaa tgatagggtt tatacaaaag gtataaacac 180
 ttagtcaaat aatttataat ttaattatat tttaaaatat ttttaaaatt tactaattta 240
 ttgtaaccac tgtaatatgt gatctttaat ggaatcttaa atattctaac cactaataat 300
 cagtctttat ttattgataa gaattaaatc caatatcaaa gatttacaat tttccacgt 360
 actaagactc atttgatagg ctaataagca gcctaatatc atacttaaaa aattataata 420
 aaaaaatcaa a 431

<210> 3871
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 3871

gggatcctct tagtcacctg ctgcatgcaa gctataagaa attttgcaac atcgtttttg 60
 atatttaaca agaacattct atttcttgac attggtacct tggtaattat attatttctc 120
 ccatctctga tggaaagact ggaatctttc atgtgaatat catagccttt tttgaggaat 180
 tgtcccaaac tcaaaatatt gttcttcata tttgggacgt agtagacatt tgatatgaat 240
 tcatgtcttg catccttcaa atggattatg atcttacctt tttcctttta taggaatatt 300
 ggaattatta ccaaattaag cattgccact tactgactca tcaagatcca cgaaacatgc 360
 ttctttttcca cacat 375

<210> 3872
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3872

tcaaccttcg gtggtccttt ctgctccaaa tcgtgaatga aggacatttt cggagtcgtg 60
aagecgcgtct ctacgtgtgg gacttcgaaa ttccaggttt ggggtggactt ctttctcctt 120
tgattttcgt gggatatggag ttttgggaga tatgatgggt agtcttgcta gttttctgct 180
tcatgatagt tatttgtgaa gaaacttggt gaaagcatgt tgaaattgcc atgtttggaa 240
gagttaaaca taccattctt gtttttaggt ttttatgatg atgcttgtga tgttcattgt 300
ctgaaattgc ttatggaaaa ctgttagaga tgaacggat aattaacctt cggttagaaa 360
gtgaaaatgt ggtgttatga gtggaaaaag agtgaattgt tga 403

<210> 3873
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3873

agcttatatt ttactaaact tcgntgtgta tttaaataatg anaagaggat tntgctatcc 60
ctaaaggaaa gaaaaaaaaa atgaaaatac ggtccttgag tgttgctcagt gaatgactat 120
gagtgcacat gtgagagaaa attggtagtg taataaaaaa attcacaaac aaccttaaac 180
agtaaaacaa atcatccaac accgagtgat aaaatataaa ggtataaagt atattatatt 240
attacttaat atatttaata aaataaaata ataaaaatat gtttttatca agtgtggtgt 300
atcactgttc ttctgtcttt ttgtgggaat aactctgtta ttaatatacc ttcttttatt 360
gaaattaaaa gaacgaaaaa taaagggaag aacaacgact accaactttt ttttac 416

<210> 3874
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3874

ntaagctctg cagtttatct tattaataga gttccctcta gtgtgttaaa cttaagaga 60
cctcttgatg tcattttctca tcatttcacc cttaatcttg tcaatcattt accaccccat 120
atttctgggt gtcatatatg tacattcgca tcctcaccaa caaacaaaat tagaatctag 180
agcaatgaaa tgtgtttttg tgggatacaa caccactcaa aagggatata aggccatca 240

tccatctaca aaaagatttt ttgtatcatt ggatgttaca tttcatgagc atgaaatgtt 300
 ttttcccttg aaaacacttc attcttcacc ttatagggga ggtgatttgg aggtgcagaa 360
 tcatgataga cttgaccaag atatcagggtt atttgatatt atgccaacaa caac 414

<210> 3875
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3875

agcttataaa aatggatgat ataaagaatt tgaagaggtc atcagatgac ttggtatttt 60
 tagtttcatt ttttcccaag aaataacgtg tacctttcgt aaaagaattc tgttttcgtc 120
 cttttgtaag gaaaaaaaaaaa aaaagagatt ctgtttgaat ttgattaaac tattttctaa 180
 aaaaaaacta ttatgaatga taactttttt cttatcttaa tattttgttt tgctatatat 240
 taagattcta actcaaaatc attaaacttg tttataaaat aagtatcttc tacttccatc 300
 ccagtaaaaa tcccacatga aggagttaag aaagctagat tactttgtga ctcttataaa 360
 tataattaag atgaatatta cgaacacatc ctatgggttt atc 403

<210> 3876
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 3876

tagctaataa tttccacagt gaatgacttt tgttaaattt taatagaatt agacattaaa 60
 gtgggttaatt acaatctcga actaaagatt tattcatttg gtaattatct aaacatggac 120
 aatactaaat ttctatttca ttttatctca tttcatttca tttcagcctc ctttccaaac 180
 aaaggcaagt aaaaaagggg gtttgacatc ctaactggat aatcgtaacg acaaacaccg 240
 cgagtattta cagcttgact gttgtacgtg cttgataagt gcacaacgtt ta 292

<210> 3877
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3877

agctttagg gttaaagtct cacgattgtc acgtgttgat gcaacaatgg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtca agttagccat aactcgctg tgctttttct 120
tccatgccat atgtagcaaa gtcgttgatc ctgtcaagtt tgatgagttg gaaaatgaga 180
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctggt tatttgcggt 300
ggatgtacc ggtagagca tacatgaaga tcttaanagg gtatacaaag aatctatctc 360
atccagaagc atctattggt gagaggtaca 390

<210> 3878

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3878

ntgattccta gnaaaacccat gatttctttg ttagcccaat catgttaca gcctaataaa 60
gtccgtagtg atccacattg agcatgtaca tagcattgac tgagatgatg tgcaaagttg 120
ggaattttaa tattcagttg ttataattca aacactttta ccgagacact tatgggattg 180
agagaaacac tagccttggt ggtaaaatta agcccaggaa agcaagcgaa ttgaggaaag 240
aagggctaata taagaaaaga agactaattg aggaaagaag ggctaattaa ggaaaataga 300
atatttaagg aaattaggct aattaaggaa agaatgacta attaaggaaa tcagattaat 360
tcagaagtcc actaatctgc acctataana gaagaagaga g 401

<210> 3879

<211> 351

<212> DNA

<213> Glycine max

<400> 3879

agcttctact tatgtggcag ggcgggcttt cttcaccttc ttgtctccaa cgcgaaacttt 60
gaccattggt cttccttccc gcgatgctcc ttttcatgtc tgcttgagtg ggcttatagc 120
ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgccattgt 180
tttttctaa acccatccc ggctcataac cgttcccaa cataactcgg gccatcatta 240

ccgctgcatc ggacagacta tgctgcccaa agagggagtc cacagaggaa atgctgacca 300
cctcaaaaga ctggaaagca gtttctaacg attcttctgc ggcttccaca t 351

<210> 3880
<211> 416
<212> DNA
<213> Glycine max

<400> 3880

gtgcttgtag aatctccctc tttttgatga tgacaacttc tgaaatcaag aaacacacac 60
acacacactt tttcctagtc gatcactcac ataaatttcc attctcccc tttgtttttg 120
aatttatgct tcacttaaaa ttaagttaat tactcatgtg agttcttgat ttaatcccta 180
tttctctccc cttttggcat caacaaaaag ccaaagtgcg taacaagtat gaaacataca 240
aatacaacta gtcattcaca caacaatcat ggaaaaaata taaactaatc ataccagaga 300
acagaaaaca attaagcaag atattttaac cattcatcaa acttagaaac gttaagaaat 360
ataaaaacca tacataattg acatacccca gaatagaaaa acaatcaaac agatat 416

<210> 3881
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3881

attgttcccc tgtccggccc gggatcctct gagtcacctg ttgcatgcaa gctttatgag 60
aaaccattca aacatatgta gtttcttcac aagactgaat ggaggacgct ttagtcgaga 120
gaccaccttg aataaccttt attccaacct ttcaagttag aggaaagagc tgatcgagta 180
agtagggcac ttagaaaaac taaatcccta attagaggcg gaagtgacac tcatagcgaa 240
ttactaaacc agattactag tttgcttaag gtcaatgcag atacgtcccc agcttctgaa 300
aatacttctc aaatgggaac gagacgatcc ttcacaataa ctaacggcat taatgaagat 360
agtgaccgag actacataac cccactgata taggaccagt gtagtaaaga atataagtct 420
taaatatccc aacactggaa accccctcca agaatan 459

<210> 3882

<211> 359
 <212> DNA
 <213> Glycine max

<400> 3882

tatgaagcct atttcgcgcg gctatctacc ataogtgtgt tgcattctata ctatgacacc 60
 aggtatgaga acaatgcacg aattctaaaa tgcaacactt agcatacagg tcaatttggt 120
 aagaccatat agcaattgaa ttctaattgca tatataacgc attttatata tattcatatt 180
 acccaagagt ctacttttgc aatataactt tattgttatt aaacgttctg tgcattcacac 240
 aaaggaaaaa actatgtgta gtatgtcaca gatgatatac gtaaacagca tgtgtgcaca 300
 aacttttcac aacaaataat ttacaactga ctctaagagc ccatactcat ggaggatat 359

<210> 3883
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3883

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 ttcaaaaccc tttgaactac ttcacataga cttatttggt gcctctagaa ctatgagttt 120
 ggggtggaat tactatggct tagttatagt agatgattac tcaagattca catggacttt 180
 gtttttgaaa accaaagatg aagcttttga tgggttttgc aaacttgcca aggtcattca 240
 aaatgaaaaa aggtcttaac attgtttcac ttagaagtta tcatggagggt gaatttcana 300
 atgagtctct tgaaatgttt tgtgaagaaa atggaattca ccacaacttt tctaccctaa 360
 gaacacctca acagaatggt gtcattgga 388

<210> 3884
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 3884

tgaaggtgtg tagtccacca tcttttcata gtagaatact agtaatgtgt ctactatcat 60
 tgttatcatt ttttctccgt cattgaggtg ccacttgagc ttccaggtct ctttaccttt 120
 gggcgtattc tttgaaagat ctgtgccctt tttgcacat gttctgttgt tgcattctat 180

ccggaaccat atcaaaattg tactgatact gcctaacgaa ggcaaccatt aggtccttcc 240
aagagtggac tcgagaaggt tccaggttag tgtaccaggt aacagctacc ccagtaatat 300
tttcttggaa ggaatgtatc agcaattcct catcttttgc gtatgcccc atcttccgat 360
aatacatctt tagatgggtc ttggggcaag tagtccccct gtac 404

<210> 3885
<211> 401
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3885

agctttncac attgaattca gcacctaatg tcatattaga tggagattgg gtatcttaac 60
ataagagatt tcagatggac tttaatccta agcccacagc cgaccttttc acgagatctc 120
tacttaaccc tgtggataaa tgatcagccg aattatgctg agttctcaca aactccactg 180
atatcacacc atgcatgatt aactcccgaa ccatgtttgt tctaacaccc aagtgtctag 240
actctccatt atacacttga ctatatgcct tagccaaagt taatatgggg taaccttatt 300
ccttgtgtta ggaattcagt tcaacaagta acaggctgtc aacatagcct caccataa 360
tccttcactt acaccgaat aggataacat ggaattcacc a 401

<210> 3886
<211> 411
<212> DNA
<213> Glycine max
<400> 3886

tgtcatagta tgacatgtgc agatgaataa gattaggagt aggcgatcca cccgcaaaga 60
acgagtcatt aggacaatga gttatgatca aatcatgaag aagtgagaga ctctagtaag 120
catgttctac aatatataga aacggatttc aaattcttac aattagaaat tctaagactt 180
ttaagcacag agaaacaacc taagggtgaag gaagtcagt aataacatct attaaatatt 240
gtcaaattct ttaatgatgt gtaatttgtt aaggattcat aaggtaggaa ctccaatttc 300
tcacaattaa gtagagtaag agattgcaat gcattcagca gaccatctct taaggatgct 360
acggaattaa cgccagagat agttaagtct atgatgaaat aggcggactc c 411

<210> 3887
 <211> 472
 <212> DNA
 <213> Glycine max

<400> 3887

tgcacatcat tccccgagtc attcatccgt atttgatgtc gatgcagcat cgaagaacag 60
 aattgccatt ccttggaatg taggggttgaa ccaagctaag gctattataa aaagggttcatt 120
 caagacgagt ggaattatgg aagtaaccgc ctggcaaaaat tggggcaaaa gatgaatcga 180
 gtcacatcaa tgcttagtct acttccaaac atatatagga ttattgatgt ccttgataat 240
 tccagttcct ccttgacaaa gatgtaatgg accatgttga aaatataaag tgattcaacc 300
 ccatatgctg tgtaaataat cccaatactt atactgcaca tcattcgcat gcattccatgc 360
 ttttcattgg ttgcaattgt taaatgcact ctttccttga aaaacaaaat aaaatgaact 420
 taatcattgt tttaacaaag gaatgggaca cgctttacga cgcccttacc aa 472

<210> 3888
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 3888

cctaagattg gttgtagaat tctctaagca tgaaaatgag gacttggatg aagacttgga 60
 gctggccctt gattggtact ctggccctt tgacacgagg gaaaagcttt acaatggagt 120
 gtatatatgg gggcctatat taggggcata aaattcctcc cctagtatga ttaaattggt 180
 ttcctaaatg catgtatgat agcatggaat gcccttatga atgcaaagt gggcaagaag 240
 tcattaactt tccggaatgc atatggataa atatgagtga gacaatcaaa atttgtgccg 300
 ggtacttcaa atgtgttgaa atagtttggg ataaccacaa gttaaagatg taaattatgt 360
 gccagtttg acgcagccct ttgcgcatga aagtgtggtg ctctttttta caatgtt 417

<210> 3889
 <211> 614
 <212> DNA
 <213> Glycine max

<400> 3889

agcttgataa taacttgaag gtttgtatca taaatgaata ctgtggaagt tatcactaaa 60
 cacgcttata aatgagggaa agaaaatttc aactcagcgt tttgtataat tctgctacca 120
 taacttattt tagcaacata gtttacgaga agataagaaa gaaaaggaga aattcaggat 180
 aagacgagtg acataattat aatttatgta aaaatattaa aacgagttca aaatgaattg 240
 gtaaacaatt tattattaat aatatatcat tcatataatt actcttatta tataaatattt 300
 tccctttatt tttttatata tcacatgaat aacaatatta ttttatattt tattcttttt 360
 cttttttttc ttttttttta taaaaaatc taacaagtat ccttaggata ttagttactg 420
 aattaaaaaa aaaattcttt tacattctct cctcttctat aattttcaca acaaatataa 480
 tattttcttt caattcttta ccaattttat aagaatacta ggcaaagaaa cccttttctt 540
 atttcattta aaataattat atatatattat tgtgtaataa atacaatttc tcttaccttt 600
 aatttaatga attt 614

<210> 3890
 <211> 532
 <212> DNA
 <213> Glycine max
 <400> 3890

tgacattcta agacgatcat gatgtcaata ccgtctttga aagttgagat tttctaagac 60
 ggtgtccctt cgaccgtcgg taaaagttag acactttcaa cgatgttaga ttcaaagacc 120
 ggcaaacacc ggcattgttt gtctctttcc acccgcggtg aaaccgcttt ttctaccagt 180
 gccatcaagt atcaactaat aaagaattga attattccct ttaatccttt tcataaaaaa 240
 taagtaattg tgttaaaaaa tactactatg ttatgacttc tttcgtaatg attggaacta 300
 atatgcaagg ctttaagcct tagtttcttg ttttttttcc tcctaaaagt gatttttgaa 360
 agttatccaa acagggcctg agtatgtttc tgtgattgag aatcaattca tgttttatgt 420
 ttcagaccat taatggaatg ttctgtatgc atgcacagag ctaagtttat ttagttcaga 480
 aaaggggtata gtgagtccgt gaaagatgat gcttgccatg tccaactaca tt 532

<210> 3891
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 3891

agcttatgct gcaaataattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
gcagagcaat tatgaccttt ccaacaacag atacaaccct ggatggagga atcacccctaa 120
cctcagatgg tccagccctc agcaaacaca acagcaacgc tgctccttcc ttccaaaaag 180
ctgctggccc aagcagacca tacattcctt caccaatcca acaacagcaa caaccccaga 240
aacaaccaac agtttaggcc cctccacaac cttccctcga agaacttggtg aggcaaatga 300
ctatgcagaa ca 312

<210> 3892

<211> 613

<212> DNA

<213> Glycine max

<400> 3892

aatgggatgg gaaaaatcat ctcttaatc ctgactaaaa tggttccatg aagaaagcaa 60
acaatacact ctttctaaca cacattttac tatttggtta aattttattga aaacaataaa 120
atcgaggag agactcttta aataagaaat gagaccctaaa aaaatttggtg atttctaata 180
aatttcaact aatagtagaa tgtgtgttca aaaaagtgtg ttgctagcat tcctcatggt 240
tccacagata caataatggt acagtttctc tcagcaaaaag gaacagtctg gtgaagaaat 300
gtaaaagtca acagctaaat tcaagggtat tttctcttaa caggacatcc aagtaacaat 360
agccaaagta ctagaataat aataagccaa ctgcttatta taagttacat taattcaaaa 420
gtcagttgta ataataagtg aaaacttatg tatctttttt gtttctacat gtttcactaa 480
atatgatcat ttgagttttg tttatatcac aacttcatgg tactcaaaac caaatgcaat 540
gttgatgacc ctactcatc ctttagttta ttacttaatg ggaagtcttg tgcaaatgaa 600
attatctaca tta 613

<210> 3893

<211> 629

<212> DNA

<213> Glycine max

<400> 3893

agcttgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60

aatctgcacc tgcgccaga ctctgtgggt tatgctcctc taccgatcac cacacagacc 120
 ttttcccttc tatgcaacaa tctaaagcca ttgaacaacc tgaagcttat gctgcaaaca 180
 tctacaacag acctcctcaa cctcagcagc aaaatcagcc acaacagaat aattatgacc 240
 tctccagcaa catgtacaat cccggatgga ggaatcatcc caaccttaga tggtcgaatc 300
 cttcacaaca gcagcaacaa caacaacaac cttattttca aaatgctgct ggcccaagca 360
 gaccatacgt tcctccacca atccaacagc aacagcccca gaaacaacaa acaattgagg 420
 cccctccgca accttccctt gaagaacttg tgaggcaaat gactatgcaa aacatgcagt 480
 ttcaacaaga gaccagagcc tccattcaga gcttaactaa tcagatgaga cagttggcta 540
 cacaggtaaa tcaacaacag tcccagaatt ctgatagatt accttcttaa tctgtccaga 600
 atccccaaaa tgggagtgcc attacattg 629

<210> 3894
 <211> 707
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3894

ctctagcttc atgatgaatc aagattgatt caaagagttt tgatgatcac aaagatgatg 60
 aaaaaggct caaaagtcaa gaacacttca tgataacaaa gatgatgatc tcaagaatca 120
 aagaatgagt tcaagattga atcaagtaca cttcaaggat caagaggaaa gttgaattca 180
 ataatcaaga atcaagtttc aagattcaag ctccaagaat caagatcaag attcaagact 240
 caagattcaa gaatcaagag aagactcaat caagataagt attaaaaagt tttttcaaaa 300
 actaagtagc acatgaatth ttctcaaaaa ctttttatca aagagttttt actctctagt 360
 aatcgataac caaattattg taatcaatta ccagtagcaa aatttttttc aaaaagcttt 420
 caattgaatt tacaatgttc caattgattt caaatgttg taatcgatta caatgatttg 480
 gtaatcgatt accagtatgt ttgaacgtta gaattcnatt taattgtgaa gagtcacatc 540
 ctttcacaaa atagctttgt gtaatcgatt aactgattt gggaatcgat taccagtgat 600
 agttttctgaa caaatcaaa agatgtactc tttccatagt tttcaaggtt ttctaaaagt 660
 cataactttt ccaaatgggt tttaagtttt tctaaagggt ataactc 707

<210> 3895
 <211> 616
 <212> DNA
 <213> Glycine max

<400> 3895

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gtagcgtaac gattagttaa ttgttctgc catttgcca ttgaccaata gattagtcaa 120
tattaatgaa tattggatta gtggttttgg ccattagtca attgacatta aaattgcttt 180
aattttattc aattccaaca aaaatattga taaaaactaa aaagaattca ttaatatttg 240
agcaaatgta aaatacattg gtcaattatt gttttgtag atgcattcat ccatcatttt 300
atcattcgta cactgtaccc aaaaaattc tatgaatcgt cttgctgtgt tattcatttg 360
aattcagacc atcctcttta gtttcctggt cataccatac cttgataaaa ttagatgttg 420
gaccagaag tattattggt gtaatcattt aatttcattc tatacatatc atctaaactt 480
gatttaactt tcgagttggt aaacaatatc atgtatattg aaaaacatct atttaaagaa 540
atcaacacct taaacaatca tggctttgaa gcatttctac tacttgggtc atgggtgggtc 600
tccgatcttt atttac 616
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<210> 3896
 <211> 640
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3896

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ttcaataacc cttcccactc acttacagga agcaatgaat gatgaaggga acaaagttaa 60
cttgtcataa aaagtttggt ttctatttaa tgtaactatg cttaaattttc cttatcataa 120
ttgtcatgat gtagaattgt agttgattca gaggaatttt ttattttacat tttatgcata 180
caatgcaatt tgtcatccat actcctatct attcactgat aataataaaa aaatactcct 240
aagtcctatc tattcattta acataaaaatt tctaaaacga gaattattag gttgccgttt 300
cggcgggttg gttggcttta ttgtgtcgtg caacactttt gtatgtcccc tctttcaatc 360
taagacgcca cgacatagat attcaattca gttttcactt taactttgta ttatactctc 420
aagtctcaat cttttaaatt atttttatct ggtgtataat gccagcaacg gaatttgaac 480
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aaaagaacat ttggataaat ctaggatttg tgctctctta gaatct 526

<210> 3899
<211> 394
<212> DNA
<213> Glycine max
<400> 3899

agcttgatca aaactcgaag gtgggtatca gatatttttt ctgcggaagt tatcactcac 60
cacgcttata gatgatggaa agaataatttc aactcacggt tgtgtgtaat tctgctacca 120
taacttattt tatcaacata gtttacgaga agataataaa gaaaaggaga aattcaggat 180
taaaccagtg acataattat aattgatgta aaaataataa aaacagttca aatgaattg 240
gtaaacaatt tattattaat aatatatcat tcatataatt actcttattc tataatgggt 300
tccctttatt ttgatatata tcacatgaat aacacactta ttttaaattc aattctttgt 360
ctttgattac ttttctttga tagaaaatac taac 394

<210> 3900
<211> 276
<212> DNA
<213> Glycine max
<400> 3900

gatattctta gacgggtccc ttcgaccgtc gttaaaaggt aaacactttc aacgaagtta 60
gattcaaaga ccggcaaaca ccgtcattgt ttgtcttttt ccaccgacgt tgaaaccgct 120
ttttttacca gtgccatcaa gtatcaacta ataaagaatt gaattattcc ctttaattcc 180
tttcataaaa aaaaaactca ttgagttaaa aaaatctact atgatatgac cttccttcc 240
aattgattgg aactaattat gctaggcctt taagtc 276

<210> 3901
<211> 632
<212> DNA
<213> Glycine max
<400> 3901

agcttgaatg tccaaagagc aaagtctcca acaaaaatgt agaaaaaatt aacattcaat 60
taaaccaaaa accctaaaaa tgtgaaaaca cgtcttagaa ttctgcatag attttagatt 120

aatatgcaat tttgaatatg tgatatatgt gaaaggaact tttaatcaca ccgtaagtta 180
 taaaacaata ttatttagtt gaaagttata gaatggtata ataattgtca atgttacact 240
 ggtgtaatth gatccttcct tatatatata agtttttagaa ctccccttga gtccaacatc 300
 ttttatgtat gctcagtaag atataataaga tcaaagtgga catgcataca tatgtaaaaa 360
 gcatagttaa gaggcgaaat tgaataatcc aaccaactca tttataaaaag caacataaca 420
 tatgtttacaa catatatatt acaacaaagc atataaagat gaaagataag tctaagctca 480
 tgatacatca aaattccaat ttctccctct tatgtaatca acaaatacag gtttgaaaga 540
 tggaaaatga taaactatca ttatcattta tggctgctga ggtggatctt catttcgtgg 600
 tgaatttgga tgtggatggt aaagttgatc at 632

<210> 3902
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3902

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 atthttgtatc ctatctcctt agtcttgagt tagatgttac tctggtgaaa gagtaaatta 120
 atagthtttht tthttactat tatgtggcat gtagtthggtt attgatagct acaattgatc 180
 aaaaaccaat tatggatatt ttacaataaa ttaatccttg agcccttcgg atagatacga 240
 ttagthtttht attgatcgta tccttatctt ttctgthttha tthttcctac cttgtctctt 300
 gaatctgaag tgtaatcaga ttggttataa aatctctaac caactctgcc tataaatctc 360
 aatctthtgaa aatttgaatg aatatgaaac aaaattatct ttcttcccct anactacaga 420
 ataaaacaat tthttgtctc ggtacctgca ttgctattht gcaggcactt ctagttaaac 480
 aaaaaagaaa catttgaaaa tgatgacttg aatcgaactt ataaaatact taatthttct 540
 ctcatthcac tthattthtt aatthtttgt tthttcattt tatttctthc thtc 594

<210> 3903
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3903

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atgaagtagc tatagtatat tctggacaaa gcgtacttat cgtactacac aacaaccata 120

aattgggaaa gcttgatata atttacacag gtctttatagc caaaagatgc tgcgtattta 180

ttgactaaca ctaagcatat catggtattc tctatacgcg cgctaggcga gtttgtaccg 240

ttaaccgccc agcccatttt tgtgaggatg aatctacttt cactcttgag agaagaactg 300

tttaattatc tctcctgtga ttcttttgat gctgatggcc acgatgaaaa ggaaagcaaa 360

tcttatggac ctcaggaacc atatgacact acgagattca tctttgaggt tgcgtgggaa 420

catttca 427

<210> 3904

<211> 548

<212> DNA

<213> Glycine max

<400> 3904

tgtaatcgat tacacacata ctgtaatcga ttaccagagg agtttttcag aaaacattct 60

caacagtctc atctttttat ctgattctta aatggccatc aaaggcttat atatatgtga 120

cttgagacac aaatttgaaa agagttttca agaacaaaaa ggtcttatcc tcttaaaaag 180

caaaatagtt ttatcctctt acaaatctct tggccaatac acttggtgatt caataaggaa 240

ttatttgagt gctcaaaatg ttcaatctat ctctttcaag agagattact tcttctcttc 300

ttctttattc tgaaaaggga ttaagagacc gaggggtctct tgttggtgaaa agaattctaa 360

acacaaagga aggattgtcc ttgtgtgttt agaacttggt aaaggaattt acaagatagt 420

ggaactccca agcggattgc ttggggactg gacgtatgca caaagggtgtg gccgaaccag 480

tataaatctg agtatgcact ttctcttccc ttaaactcct ttatttatta ttgatttata 540

ttcatatt 548

<210> 3905

<211> 544

<212> DNA

<213> Glycine max

<400> 3905

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agctttgata cttacagctg atgcaataac cactgtctgc ccaacttcaa ggccatttat 60
tccagcatgt atattgatgg aatttgtgca aaaaacagcc aagagcccca tatatagttt 120
atacatccat cctgccccat aaaacaaagt caaaatagtg aatctttaca gtaattagta 180
ataactcctc aagtatcatt tacataaagg tacaccatca atatggaagc tcagaaatga 240
cattatcttc aacaatcatc cttttgtcat atcgaggctg ttggacaata caattttcct 300
ctcttgggtct tggatgaggg ggtgggaaaa ggattttaat gttccttttc accaatgggc 360
ttcatctatg gctttgggtt ttaagtagtg atagtgttgt tgggttgggt tgaattgttt 420
ctgctgggat gttgcataat tttatttact tttctgtccc aggagaacct acctcctgtg 480
gcttcttgta atacctctgg tactatgtat cttctattct ataaaaaact tcgtacccca 540
ttgc 544

```

```

<210>      3906
<211>      570
<212>      DNA
<213>      Glycine max

```

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<400>      3906

```

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gccatgcttc acctccatca agagcactca actgatgttc aagtacctta aaaaacatca 120
caactcagct ggagaaataa aaactaggct aacccttagt cacctcctta accccgatga 180
agatgaagct tagctatggt tcagtgtttg tttctcttgt ctatattggt tgatgggttg 240
ttatgttctg ttttgttacg tttgtctttg cttgatgaaa gttaagtttt tttgtaagct 300
ttatgattaa aagttgtaat gttccatgat taatgaaatg ctatggtttt atttccttc 360
aatttttttg tgttctgatt tttgtgtata gttcaaacat tttggccttg ttaattctaa 420
aaggcggaga tgaactagca tatttgctcg cattgcataa gcatttggga ataacttgca 480
ctagcattag taaaattata tagtatgata tatgatgatg atgatgataa gaaatgattt 540
tttcttaagt gtaagaattt taggatgact 570

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<210>      3907
<211>      464
<212>      DNA
<213>      Glycine max

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<400> 3907

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gtgcactttc ccctgggtat ttggctctcc cttgatgtgt tttagtgett tagttgctca 120
ttttttgcga aattcgtgaa gcaattcaca tgtgaatcca tgcttgtttt cgctaaatta 180
aagggttgta agggatggcc ttaagcctat gttgcattct ggagtaatgg ggcattgccac 240
attgccccca ttctcttgca cctaggtagc atggaaaata cctttcaatg gtatgtatat 300
atgcgaatat atatagcatg aaaatgcctt gcaaagtgtg tgaatatatg gcataaaaat 360
accttgcaaa gtgtgaatgt ttacaaaata aatgcatttc aaaaaaaatt tgtttttttg 420
tgtgggtcgc aaaaagaccc tttaaaaaaa aatccccttt taaa 464

<210> 3908

<211> 316

<212> DNA

<213> Glycine max

<400> 3908

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gctctaaggt caagaacact tcttgataac aaaaatgatg atctccacaa tcaaagaatt 120
agttcaagaa gttcaagatt gaatcaagaa cacctttatg tttaaaaaga aatttttattt 180
ttagaaacca gaatcaagtt tctagattct cgaatcaaga tcaagattta agactctcga 240
ctcttgattc tcgaatcaag agaagacttt ctctcgataa gtttgaaaaa gtttttttaa 300
aactgagtac cccatg 316

<210> 3909

<211> 362

<212> DNA

<213> Glycine max

<400> 3909

agcttggttaa acgattctat gaaccatact ttgttttga ccaaattggc aagggtgcat 60
acaaacttct attgcctgaa agatcccgca tttctcctgc tttccattgt tccttcctta 120
aacccttcca ccaatcatct gaagaagatt gtgtccact agcattgcct tccaatgatg 180
ttgaaaatca accagttatc tctcttttaa ccattctggg cactcattag gcctctgaat 240

ctactgatcc aaagctaagg tattaattca atgggcaggg ttgtctcttg atgacattac 300
atgggaagat tgtgaaaaac tcaagactgt ctatcacctt gaggacaaag tgtttttttg 360
at 362

<210> 3910
<211> 536
<212> DNA
<213> Glycine max
<400> 3910

tgcattgattt acagaatttg tcttttatat ttaatatctt gttttatttt ataaagaaaa 60
taattatttt tatcattgtt tgatataata tggctctctat ttataaatca agacatctag 120
tttccttatt ttccaaaata agcaatttta gtccctatcag ttgaccatcc aaagtctaata 180
gttgacttct atgtgacata ttggtgctga tatggaactt atgtatgcaa atgacatgac 240
acttatgtga aaaaaaatta aatgacgtga ataataaaaa aacatcttaa tatgaattaa 300
acttgtgacc ctttattcat agacaatgga ataaactact aatatactca atttgtctac 360
ctaaatatat tactattatt ctctatgtat tcaatagtca agagttatat tttttttgca 420
gattatcaaa atctataaat taaaaatatt taatatataa atctttttta tccatataata 480
tataaattta tatgtttcta ttttgaataa tttaccatct aattttttatt tttacc 536

<210> 3911
<211> 369
<212> DNA
<213> Glycine max
<400> 3911

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agagagcaag aaatgaagag ccaatgtgat gtgaatctta cggggcgagg atcgcttgat 120
acaggctgta tagtttttgg atgacgccac tttcggtgaa ggaagataag tcagggtaga 180
cgccactttc ggtgaaagaa gatgactctg ggtttatcct acttctctgtg aaggaagata 240
attcccgggt taccacacat ggattaccct gataaggctt gaaattgggt ctacaaagga 300
accataaag aaacttcttt ccaatattat gaaaacgtcc caagtttttt tttttttaa 360
tataaaaac 369

<210> 3912
 <211> 496
 <212> DNA
 <213> Glycine max

<400> 3912

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ttggtcctat tcaaatagcc ataacttttg acatgggggt actattgagg cccatgatat   60
atcgagagggc tcgaaattga aaaatggaag ttctcgagaa attcaaattg tcataacttt  120
taacttggat gtccgattca cgcacataat atatccagac acacaaaatt gaaaaatgga  180
attctcgata aattcaaattg ttcataactt ttgcctccaa tgtcagattt aggcgcataa  240
tatatcgaga cgctcgaaat taaacaagaa agctctgggtc caattcacac ggccataact  300
tttgacatga gtgtatgatt gatgcccatg atatatagag acgctcgaaa ttgaataatg  360
gaagttctcg agaaattaaa attgtcataa cttttcactc ggatgtccga ttcagacaca  420
taatatatcg agacgcttga aacctaacaa ggaagctctg gtcccattca gagggccata  480
acttttgaca tgggtg                                     496
  
```

<210> 3913
 <211> 543
 <212> DNA
 <213> Glycine max

<400> 3913

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agcttgtgct tgttttatta aaattcctag gatcatgagc aactagggtg gtccataaat   60
gacttgcgaa acaaaagggtg atcaaataac aagcagagat ttaaaaggta ctaggttgcc  120
tcctagtagc gcttctttaa cgtcttgagc tggacgcctg atgacttgtc gatcacggac  180
ctagtacttt gcttaccttc ggctttggac ttggtcacct attggtcgac catgtgtcgt  240
aggcaatact ctaacctttt tgtggatgag ctgaggggct ctatagggtg cgacgggtgca  300
tttattgcct gttgctggcc atccccaggc tgcctgtggtg tttcgccctg cacctgcctg  360
ggggcgcagt acttcttgat gaaagctcga ttagtagggg acctgatgac cttgccgggg  420
gtgataggca ctctgtagaa atgacagagg cccgtaatca gagctggaaa ccccaggacc  480
ctgttggact tctttgggtc cactgggtgt cctatgtcac gatggcatga tcttgctggg  540
ggg                                                     543
  
```

<210> 3914
 <211> 555
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3914

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 aaaaactaag cctaatagtg actcatgaac caaagctaga agatgaatac accaaggtat 120
 cagtcttgca agcggaaaaa gaagcaaggg aaaaggtgat caattcattg cacaaaaaag 180
 caatgatgtg gatggacaag ttgcgcttta ctttgaatgg gaatcaagag cttccccaac 240
 tgctaaccaa agccaaggca atggttagatg tgtactcggc tcccaggaggaa gttcacgggc 300
 tccttaatta ttgccaacac atgattgatt tgatggccca cataattaag aaccgctaag 360
 gcaattgtat ggttgctttg attttgatta aataaacctt ttttgttccc taataaaatg 420
 aggttgattt aatcctatgt gtttaaaact ctgtgtgaat ccaatacttc gacaacttat 480
 ctttagcatg cattncatgt ttgtttttat cgcattactc accgcatttt gttcctctag 540
 gaagtacacc ataac 555

<210> 3915
 <211> 592
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3915

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 cttgttcttt ctttgacaaa catacatact tgctcaaact tatgaaaaga aacacaaact 120
 ccatcacaat catgcattcc atccaaaatc aattcataac accaattttc acaaaaagat 180
 aaaaatgttt tactacataa tcatccaagt caagttaaac tattccatat gcttcaaaac 240
 aagcatacta gctatccaca aacaaaaaca acagtgtata taaacattaa ccaaataaac 300
 taagacactg aactgaaata taataattat ataaaaaaat atccaaaaag caaaatcctc 360
 aggaatttaa aatccctgag ataggtcctg tgtatcctat gtctgagcat cctcctcatc 420
 tgtcaagtaa agtactggag tagttggagg agaggtgttc agtgtcagga ctggtgtggt 480

aatgctagtc attctctcac aattaaggat cacaccactc accggattgt ggctaattgat 240
 taccttcaca atttacctgt caaaccaact aacattttta gtcattgctcc taattcatgt 300
 tctttatctt ctaattaccg catactcatt caaagcatat gatctaataca ttgcaattca 360
 ctcaattcat gtaattgac aatccaattt cattcacaaa cacacaattt ccaaatacaa 420
 caaaccactg cataaatcag actgtaaagt gttcaacaag cttcaaaatt tgctaactaa 480
 ataaactgaa tataaaaaatg aaattaaaag cataaaaataa tcataaaaat gtattaaaat 540
 caggaaaagt gcataaaaat cctgtcaaag ctctcccgt gttgcagtaa gctcatcctg 600
 gagtgaagag ggagtatctt gggttggat 629

<210> 3918
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3918

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 tacacctgtt gcaagagtct ggggtctatg ttcttctgca gatcaccata cagatctctg 120
 tccttctttt gcagcaatct ggagtcaatg agcaacatga agcttatgct gcaaacattt 180
 ataatagacc tcctcagcag caaaaccaac aatagcagaa taattatgac ctttcaagca 240
 atagatacaa tccaggttgg aggaatcatc caaatttgag atggacaagt cctccacaac 300
 aacaacagtc tgttcctcct ttccaagatg ctgctggtcc aagcaagcca tatgttcctc 360
 ctccaataca gcagcagtca caataaagac aacaagagac tgaggctcct cctcaacctt 420
 acttagaaga gttaatgagg caaatgacca tccagaatat gcaaattcag caagagacaa 480
 gagcctccat ttagagtctg acatatcata tggggcagat ggctactcag atgaaccaag 540
 ctcagtccca aaattctgac aaattgtctt cacaaa 576

<210> 3919
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 3919

agcttagccc aagaggggat ggaccttttc aggtcttgga gaggatcaat aataatgcct 60
ataggttgga cctcccaaga gagtatggag tcagcaccac ttttaatat tctgatttaa 120
ttccttttgc aggtggagct gatatagagg aggaggaacc aacaaatttg aggtcaaatac 180
ctcttcaagg gggaggggat gatgcaatcc tccctaggaa agggccagtt accagagcca 240
tgagccaaag gctccaaaag attgggctac agttgataaa gaaagcctta cggtttttaa 300
tgaacttttag ggaaaatttt tgaccccttg gcccaagggtg ggttcaactt ttttttgaaa 360
atatagaata agttggtttc ttttttggg ccc 393

<210> 3920
<211> 631
<212> DNA
<213> Glycine max

<400> 3920

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aattccgcct tttccttttt attttcccca atttggtgat gctaaaaatt ggatccacaa 120
atcaagatac aaaggcttct ttgaatcagt ttgcaatgta tcatacatag gggcatgtgt 180
ttgttgaaaa gactcttgtc caagatcaca aatcatatcc tctaagcaat ctcccatttc 240
tacatcaaat ggttcagatt gggaccgcct ctgcatgttt gtcaatttac cattctatat 300
ccatgttgta taattcttct taatcttata acacaacatg ccctcgtagt tcgtcgagta 360
tttgctgtct cccattcaaa taatttatac aaggacaaaa caattttttg tcccatccg 420
attgacttct ttgagaagca aattgcaaga actgttccac accttctca tacacagggc 480
tcatgggact ttattcatc caactttgat ccatctaaat aataactccg tgatactaac 540
aaagttattc aatgcataaa aaatctactt ttttattaaa ggtgtggggc tattccattc 600
aaaagacatt tttaatggta aatcatatgt c 631

<210> 3921
<211> 324
<212> DNA
<213> Glycine max

<400> 3921

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ttgcacaaca aactgagaac tttgattctt acttaaagag caacagcgct ttgtatcttc 120
 atttttcttc gtatttatct aaaagctcag ttctcttgat gaattgtgta tcagttactg 180
 aaccctctgc taagcttggg cttatgactt ggcgaccata ctgctaaaga tgtgattggt 240
 atttgactct aacactatat tgttatgaca tcatgggcta tacatggtgc tactgtgcat 300
 ttagtgccctg atgctggcca tacc 324

<210> 3922
 <211> 794
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3922

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 cgctgcgctg gacattcact ggtgaccaa ggctaaaagg tgagaagccg cgcctttccc 120
 tctggaattc gtcattggaa gcagagctct tgcacgtcta taatgccctg ggatatacac 180
 ttacaagaat agccttgctg gatgcatcaa ttgagagaaa gagaaaggag gcacaactta 240
 ttagtggaga ctcagcagga gacataatgn atattggtct gtgaaaggca tcttgcaact 300
 ttatttaacg tggaacacat gatagacatg tttgectacg tagcctgagt cccttactga 360
 cgtgtactct gataggagta ttccaatgac atgcacaatg catgttatca tatagccttt 420
 agatgcctct acaactgtac gtgtgacttt tgcgcgctgt caatgattac gcccgcttga 480
 ttattccatg catatggcgc atgcatcttt acatatttct ttccgaagtt tggagcgcgc 540
 aagattcacc aaccctcta ataggctcct ctcagcgtc tgctcgaaaa cctgaacata 600
 cacaaaattc tgggtgacct tgaccgagcg catggcctcg aggaagcggg tccactcct 660
 tttaactcag taagccttac cctgaaggag aggctgctta cttgtaaagc ccgttaaaac 720
 cacaccgta ggaagtccgt ctccaagggg gaacacacca cccctattaa tacctcgntg 780
 gcccccccc ctcc 794

<210> 3923
 <211> 185
 <212> DNA
 <213> Glycine max

<400> 3923

tttcaactat gtgtcgctaa acattttactg atctttttctc ttacatgtaa ttaacacgac 60
ctaagttgcc tggtaagatc tctaccttat cgactaggac taaacgccta atgacttgga 120
tatctctaac gcaacccttt atttacctta gatttatgac taggaccctt ataggacaac 180
cctga 185

<210> 3924
<211> 501
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3924

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aaaagctaag cctagtttga atatgagcag agctagacga tgaatacacc aacgtatcaa 120
ctcttgcgag cgggaaagga agaaatggaa taggtgatca attcattgct cacagaaaca 180
atgatgtgga tggacaggtt cccctttact ttgaatggga gtcaataact tccccaaactg 240
ctagccaaag ccaatgcaat ggtagatgtg tactcggctc ccgaggaagt tcacggggctc 300
cttaattatt gccaacacat gattgatttg atggcccaca taattaagaa ccgctaattgc 360
aattgtatgg ttgctttgaa tttgattaaa taaacccttt ttgttcccta taaaatgagg 420
ttgatttaat cctatgtgtt taaaactctg tgtgaatcca atacttcgac aacttatctt 480
tagcatgcat tcatgttttg t 501

<210> 3925
<211> 194
<212> DNA
<213> Glycine max
<400> 3925

agcttccggtt gttgtatttc gagcgtctag atgagttagg acagcgagtc ggacatcctg 60
tgaaaagttg tgaccattct aagctctcga gcgcttccga tgaacaatgg ccagcgctcat 120
gatcataaat gatgctgaaa cagacatccg agagatatgt gctgaccatt ctaccctgtg 180
cagagctttc gctg 194

<210> 3926

<211> 389
 <212> DNA
 <213> Glycine max

<400> 3926

tgaccaggaa ttatttgtat gggtcgaatg ttgaattccg gttgttcctg gcgcggagat 60
 gatggtacag cgggtgaacc ataatcggaa gattcttttg gtgaagtagc catggaaaag 120
 cagagcgttt ggaatgattt cgtaaacttc agaaggctat tgggaaatgc tggataaac 180
 acgaatgcca agcagatata aatttgaatg aggaatgtac agggtcgtgt gaagcaacgg 240
 tcaaattttc ctgggttcat tagagaacgc gctataaatg ttaagagatc cggtggggca 300
 ctttcacatt gctggaggtg ctataatccc tctagcacac aaatgcccat cttgcccttc 360
 agtttttcaa actgatgcgc ctccaaagc 389

<210> 3927
 <211> 804
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3927

tacaaccaga agtcactcta tgctaaattt ttgaaagaa tattgccac catagaagaa 60
 accaagggtcc attcagaatt ggccatgtgg gtctccacaa ggaatccaag aagaaggaa 120
 aaccttttta ctttaacccc gggttgggtg gtatatattg cttttctcgg gtggtattgg 180
 ccctttccgg tctgtgtaa tgctttcacc tacatttcag aggtgcatga agggcaattt 240
 ttttctaata ttgggggaga aaatggaatt cgaaagtitt tcatgggatg atttcctttg 300
 tttttgggtc atcttttgga tgctttgcca atcaaatttg aaaaaagtat tgtagaaat 360
 gtgaaaagtc taatttggtg cttaactggg agaatgtca cttcatggtt caagaaggca 420
 tagtgctggg gcataaaaatt cagtgagggg aattgatgtg ggacaaggga gaagattgat 480
 gtttattgag aaaacttccc cctccaatga aatgtcaagg cgagtgagaa agttttttag 540
 gacacgggtc gttcttacag acgtttaata aagatttctt aaaagtagcc aaaccactca 600
 gtaatatgtt gaacaaaaaa tgttgctttt gtgggtaatg aaaaaagtgt ggaagcattt 660
 aatgatctta aagccaaact agtatctgct ccgggggatt acaccacaaa attggggggc 720
 aaaatttgaa ttgatgggtg aagccaacca atattttgga agtgggtgcgc ctcggtataa 780

gaaaaggcaa aattttttat gctc

804

<210> 3928
<211> 610
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3928

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cctcaatttc attgtctccg tggtgaatgc attgctctct ctacagacat tatttcccaa 120
atctcaacgg tgagaatgtg aggaaatgag ttctaaaggt ggtatccaaa tttcatgatg 180
atccaatggg taaaagggtt gggatcatat ttttactgag atagatttga gtgtatgcgg 240
gaaagaaaag aagggttttg gagaggaaaa aaggaaaacg aatttgagag gaaaaaagag 300
catagagacg tatcgtaaatt attaaaattg acctaatatg tctctattta tagctggact 360
actctcagcc tattatttac tttatttttc tttattttat tattttataa aaagaaactc 420
tattttactc tctcattgaa taaataacca attaanatat ctttatattt tctaaaacat 480
cattttactc tatttgcttt ctaatgctat gaaaccatta ttttaattaa aaaaaaccct 540
tttcctcaa ttatngtaat tctaaaaact ctataaattt tagataaatc tctatttatt 600
ttacgaaaaa 610

<210> 3929
<211> 643
<212> DNA
<213> Glycine max

<400> 3929

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaataa aagaggtaga gaagtggaac tttgaagtat gtctcacaag 120
agtctcattc atcaatgtta ccacaagtgt tacacatgct tctatttata gactaggtag 180
cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240
ggagaagcta gagcttagct acatacacc ctctaataac taagctcacc tccttgagaa 300
gattcctaaa gaagctagag cttagctaca cacacctctc taatagctaa gctcacctcc 360

ttgagatgag aagctagagc ttagctacac accccctata atagctaagc tcacccccat 420
 tocaaaaata catgaaaata caaaaaaaaa agtcctact acaaagacta ctcaaaatgc 480
 cctgaaatac aaggctaaaa ccctatacta ctagaatggc caaaattcaa tgcccaaaag 540
 aaggaaaaac ctattcta atttacaaag aagagtggat ccaaccttga cccatggtct 600
 caaaaatcta ccctaagttc atgagaacct ctaggcgttc ttt 643

<210> 3930
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3930

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 gtctataaca atagtttttg taagtataat ataattataa tgtgatgata tgaagaataa 120
 taataatcta taaatgaatt gcaaattaca aattacaaat ctgtattaag tatcaccatt 180
 aatagctgaa tgttgtcttt tttgttcttg caaaatagtt ttctacgct tccttcgttc 240
 aacatatatg tccatgagta attgatttct gcaacaactg ccttataatt gccaaacaat 300
 aggaaaatca aatgttgaaa ttgagttaaa taagttgctg tagtaggctg actttaaaat 360
 gataccaaca ttatagttat ttgcatttgc ttcaccgagt aaagggatat gtatttgcaa 420
 tagaaaaagc ataatagaat aaaacaatag aaaaatttgc attcagacgc attaaatntc 480
 atactcaatg gtttagtgca gcacgaatga attgctgctc taaaatgtta ggtttgcaat 540
 catctgtcat gtgaatatt 559

<210> 3931
 <211> 470
 <212> DNA
 <213> Glycine max
 <400> 3931

agcttcaaag gcttagacaa gggagtataa gtgttgaaga atatagaaaa caaatggaac 60
 tactcctttt aagagctgga cttagggagg aggaaagaac aagcatagct aggttcctta 120
 gtgggcttaa tatggaagtg agggacaagg ttgaactcct tccatatatg gacctagatg 180
 agctagtcca actttgtata agagtggagc tacaacttaa aagaaagtct tctttaaaat 240

cttaaggctt tcactcttat ccaaggaagg accaagccca aggaattttg gaggctgcac 300
 cttgaaaacc caaggaagat aagggtgaaga ccatagagaa atccaccct aagactagtt 360
 cccaagaaag gactagcaac ataaaatggt tcaaagtgtc tggcagaggt cacattgcct 420
 cttaatgccc cacaagaaa accttgatta tgaggggtga agacatttat 470

<210> 3932
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3932

tgtggtgcaa aagattacat ctatacaaag gaatttttga tggggcagcc tccaagactc 60
 cattaagatt ccttgggtga ggtgggacat agtctgccta cctaagagta aagggtgggtt 120
 agggatcaaa gatttgatta aattcaacga ggctttgctt gctaaatggg ggtgggagtt 180
 ggcaaataat cagaatcagt tgtgggccac aattctattg tgtaaataatg gtggttggag 240
 ggatttgatt tctcatagga actgcagttt agactctcct tgggtggaaag acctcaaggt 300
 tatcttcaag cagcagcaaa gcaacacaat ttgtaaaaat agctttatctt aggccatang 360
 taaggacggt ccatggaata caaaccaagt acttattggc ttgacaacaa aaaaaacact 420
 cat 423

<210> 3933
 <211> 113
 <212> DNA
 <213> Glycine max
 <400> 3933

ccaaatcctt cagtaggggc tcctaaaacc tcctttagtt ttttttggct ttccctctc 60
 ttcaatggtg gttcctcatt tttttccccc tgggcctcc tcaattgcct ggg 113

<210> 3934
 <211> 584
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3934

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 tCGTgatgtc gacttaaata ggcaatcctg tCGgtggacg cgcgcttagc ggaagatgag 120
 ctCGcttagt gccagtcaca ctCGctcagc ctaaagatga agacgatgcg cttagcgagt 180
 tggatttcgc tCagtgcctc tatacagctc atccttcttc cagaattgtg cccgtgctta 240
 gccatcatat gatgcgctca acgggcgaca cacttagcta gatgatgagt ggcttaacaa 300
 gttcatgaaa tctgcacttc accaatcttg cctattttac ctgaaattga agtggaaaga 360
 tcattaaata cacagaactg ggatacgaag tacctattac ctaaattatc aaaaagtgat 420
 taccatacta ccataaacia ctatacatgg gaggagtgt atacaattta caacagtgtt 480
 ntacacaaaa gctagtcgta ttgactgact aacatgccac tatactacc ctatgtcaag 540
 ataaggtcat catattctat aggatatggg tgattttatc aaca 584

<210> 3935
 <211> 581
 <212> DNA
 <213> Glycine max
 <400> 3935

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 ctctaagaga gctctgaaat ttgaagttta attttcaa at gatcaaagtt taaaaaatgc 120
 acacacatga cctttattta tagcctaagt gtcacacaaa attggaggga aatttgaatt 180
 tatattcaaa tttcacttga atttgtggag ccaaatttc actaattatg attaatgaat 240
 ttttgctatg ggtcagccca ctaatccaag atcaagtcca agattaagtg tgcttaggtg 300
 tcatcagaca tgtaaagcaa gaaggacatg cacaaagtgt gactatatga tgtggcaatg 360
 gagtgtagca agcaaatgct cacctccctt tctaaaattt aattggattg ggcttctccc 420
 aattctatta aatttatctt tcaacacaca catcaa at tcaactta atg catgtgaaat 480
 tacaaaagta ccctaatac aaaaactagt ctagggtgcc taaaatacaa cggttgaaaa 540
 atcctacttt tctagggtac ccttccttca ttatggatcc c 581

<210> 3936
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3936

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ttgcagattc tcaaaaatga aattttcaag gacgagaaac atttgaagga tttttcaatt   60
gacatattaa gtcaaatgac tcctattctc gataactcac ttttctctca aaaggaacaa  120
actttcagaa atgataaaat gaggccacat gaatgtctgt atataatTTTT tatttgaaac  180
atagtcaatc aaatgctttt tctttttttg tttcgaactt tactcgtcac tttacgacac  240
cttgaccaaa catgcataac gagtaatttc tgattgaaca gtcttggaag tcaaacctca  300
ngagcgcagg tcgcttgagc aaacaaacca acaacttaca ttcacattcc agtggaagtc  360
aaataagcaa agatgtaatt atgagaggat gagagaaagg gatgtcaaat ttatccatat  420
tattagcatt gtaattgtgg tttaacaataa tggcataaac ttaaaaaatc taacaagtca  480
ttagagacat ctaacaacaa ccttcaaatt gccccatgta tagtgct                    527

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<210> 3937
 <211> 831
 <212> DNA
 <213> Glycine max
 <400> 3937

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ggagatttgt agcatcgtgt cgccecatgt ttcatagaat ctgcctgcat gcatgctttc   60
ttgtgaagac ataccttgcg agaagaattt ttttattgga gagagagacg cagttaccca  120
tgagtgtgag gtataaaaaga tgacatggaa ccaaaagata ggctgttttg tttagtgagg  180
gagtattctg atgcgttgag gaggggtgag acttatacac agattccaat agagagcttg  240
tgatgttcaa cctatgggtcc tgtcctaagc tttttagttg attcggacat ggtataagtt  300
gtgatggatg caggttagct ttttaaacgc ttacaaaagg tgttcacata gcatcccatc  360
ttagcatatg agtattgttt ttaatgacgac atggttagct aatatctgtt cctattgcta  420
tgaagcacta ttttttgttt tcttcctata tagcgataaa aattattttc tttttcaaat  480
gtttttttta ttattaatgc ttcttgattt agggaacctt gtaatttatg ggaaaacctg  540
ttcgccgtga aagtctaact tcacagatta tcctactaga atgaatgacc gctttttaaa  600
ctcattttct tgtgttatat ttaatgttgt ccacctcaac catatttcta atttggtgat  660
tgtttatcta tctgctcata catatttcta tgtatcttgc gttcttattt tcataacgct  720

```

ctcgctattc tttttttggt atcctactca ctctatcttc gactatatgc cttttgataa 780
aatgtttcct ttattatact cacctatttc tataccctta tcaccgtact t 831

<210> 3938
<211> 294
<212> DNA
<213> Glycine max

<400> 3938

tttgatactg acttaggcaa ctctcaggc agagaaaatt ttttatgcgc cgaagcatac 60
aaaaccctag gcttgaatga ctacgcttga gggatccatc tggcacttta tccaagcgac 120
tacaagctac ccacacactc acaatgcgca caatttaatt ctccagcgga gttccacaaa 180
atcatgcgca aatgccatag aggcatctca ccgaacactt ggtgggggca tgtttaatcc 240
ggatcatcaa gccgaagggtg gcaaccagac ttgccacatg ctcataaatc tccc 294

<210> 3939
<211> 146
<212> DNA
<213> Glycine max

<400> 3939

acatttgcta ttgatttgct ttaacctagc cagtgggtcaa acatgtttgc ttatgttaag 60
cggtttatcc ttgcgtgttg acttcgtgct aatgggttaa tgtagcttcc ctacacatac 120
atccgaattt ttttctaaac atatct 146

<210> 3940
<211> 534
<212> DNA
<213> Glycine max

<400> 3940

tgtgggtatg tgttcatcac tacaagattt ccacatttgg gtttctttcc gaatgaaaaa 60
aatggctcgt ttactactaaa ttgtttgct ttacttctt accaatctga tgcattcttg 120
gatttttttt ttttttttgc tatttcaagt ttgcttctcc taatgtgtat gagtgggttc 180
agaattcacg gtaaaggaat gtgtaatagg ttttatgaa gaaaattttt tctttttttg 240
ggtaataagt cagagatgct tttcaagctt ttgctacatt gctcgatcag attttgttct 300

gggtaagtta atcttttcat ttttctaagt attattatat atttggatat tacaatctta 360
 ctgacttta catggggaag tcttcctttt ctgttggttaa gttccaacaa catacgtgtt 420
 ccttccatac tgcaattttt atgacttccc tatcattaca taaatattga ttgcgcaaga 480
 aatatttgct gccctatttt ccttttccat ttatttgtac attgaaataa aata 534

<210> 3941
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 3941

atatccccac cccacaccat gtttatcatg tttttaatta tatgagcttg aatctagttt 60
 aacgatgctt gcctttatac cttgaatatg tgtgaaatat tactcatatt catgggtgca 120
 tacatttggtg cttgcacatc aagtatacgg ttgtattata atgaatatat taagcttgag 180
 atatcattat tttttatatt gatcaacca atgagatgca 220

<210> 3942
 <211> 506
 <212> DNA
 <213> Glycine max

<400> 3942

attcaatggt tcagatgcag ctgcataagt ggagtctcat cctgatgatg ctggtgtata 60
 tatgctgacc catcctaaat aatttgctgt ggtaagtgga tgctactctt atgaacttgt 120
 gttccccctt taatataagg aaaatgcact tttcatgatc attacatgtg ctgatttttc 180
 aggttgatct tgatccttat gggtcacctt cagggtttct ggatacatca gatcactcta 240
 ctgctgatgg aggtatgctg atgtgtactg caacaaacat ggctgtgctc tgtgggggaa 300
 atggggaggt ctgctattca aagtaatgtg catactctta ttcacaatca actttcattt 360
 tgtttgattg gtggactgaa cttttaacaa ctgctattca tactacatat ggatcatacc 420
 cattgagagg gaaatcttgc ccttcaaagt gctttgagga acaagccggc ctgcattgac 480
 gtatggtata taacgcagaa actctt 506

<210> 3943
 <211> 572
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3943

agcttgtaat cgattacaca aatcttgtaa tcgattacca gaggagaatt tcagaaaata 60
atttccaaga gtcacatctg ttcaaatgat tttttaatgg ccatcaaatg tctatttata 120
tgtgacttgg aacacgaatt tgcttagagt tttttagaac aaaaaggtct tctctctca 180
aaagaaaaat catcttatcc acttaaaaat tccttggcca atacacttgc aattcaataa 240
ggaattattt tagtgctcaa ttgttcaatc tatctctttc aagagagatt tctttttctc 300
ttcatcttat ttctgaaaag ggattaagag accgagggtc tcttggttga tagcaatcta 360
aacacaaaag agggtttgtc cttgtgtggt ttaaaacttg taaagggtt ttgcaagata 420
gtggaactct caagcgggtt gcttggggac tggacctang cacaagggtg tggccaaact 480
tgtataaatc tgaatttgca atttttttcc cttgaaccct tttattgggt aatgcttatt 540
gcttctattc agaaagttaa aattcgcata at 572

<210> 3944

<211> 512

<212> DNA

<213> Glycine max

<400> 3944

tacctgctgc caattcagtt cccaaggcta acaacaatct cattactatt aagtctgcga 60
cgtcttgtaa taacaaagtc attgacattt ggcatttcca tttgggtcat ccttcatatg 120
ataggatgca attgttctaa caaacttata ctatgttgac ttgtgataaa acctttgttt 180
gcgatacttg ccttagagcg taacagagaa aactttcatt tcccaatagt gactcataag 240
cttctagtcc tttcaatttt atacatgtag atatttgggg tccttgtgcc acaactgctt 300
tgaatggaca taagtatttt cttacaatta tggatgatca tactaaaatg gattggattt 360
ttataatgac ttcaaaaagt gagactcaaa ctcatctaca agcctttgtt gcctatgttg 420
agaggcaatt taatacaaaa atgaaagcta ttcgatcaga taatgggtgct aagtttatca 480
tgaaacacgt ttatcataat actggtatca ta 512

<210> 3945

<211> 521

<212> DNA
<213> Glycine max

<400> 3945

```

agcttttata tgtgtgcaag taataaaagt tcttctagt tagccgtgga tgtaggtaca 60
tacattgtat gttgaaccac gttaaacttt gtgtcttttc tctcttccct ttattttcttt 120
ctctttctttt attgctctat actaacactg taatcttaat gcaattcggt taggctaagt 180
tcgacgagga atcctagaat gaagttttaa tataattagt ccattcaagc gaggaatcgg 240
tgtttggggt atttgctctc agcatagaac acagaaacaa ccttaaatag agaaaaacac 300
ataattacat caagttgttc agtagaacga cccaacgttt taatcatttg tttatctctc 360
actattagat agcaattttg tagttatttt tagaattaaa aaaattatct tttgttatat 420
tttctgggtc catacaaatg gctgcttatt gaacgaacac ttttcttaat gaaacaaact 480
ccctgtgatt cgatactcga ttcttatcat tttatattac t 521

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<210> 3946
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3946

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tatataattt tttatttaag aaaatattag actatttttg ttttcattaa aaaagataat 60
ttgaatccac cactgagcgg gaccctttca atttgataaa ttgattaatt gtttgtagag 120
aaaaaaaaac aataatgata aaaatatatc gtttaatgta ttcgatgcag cttgcttctg 180
tacttcgtgg tgatctgtat tttgtccaga gatgatccat tatatcataa tctatatttg 240
tttttaagat acttgttttt ttattttatt gatatcagt taattatcac attaagctta 300
gtacctaaaa tagtcctaca agttttaatt ttttagacct attataaaat taatctttaa 360
tcaaaactta atgacattta aggtttatta ctcttctca ataatatatt ctgtaaagaa 420
ttaaattcag attttttttt actatatgca ttatcaatta aattacattc attaaataac 480
acggtatttg ttttaatgcy gccanatag aataagtgat cgagtggaaa tagaaaaaca 540
aaagcattga tttttagtca cttttactga gaaaacgttt tgaaacagtt gtcac 595

```

<210> 3947

<211> 536
 <212> DNA
 <213> Glycine max

<400> 3947

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agcttgagaa aagaaaaaaa cagagatgaa cgatagagag agagagagag agagagagac 60
ctatgagtga gaggaagaaa agattgtaat ggacagaaaag aaaaacatat ttttcgatgg 120
aggtggtagc tcgtcacgtc aaggtgtggt gagagggaga gagagataca gagagtgagc 180
attgtgaggt acaatgtttt gtacagagtg aggaatttta attcctttgt ttttgctaag 240
aatttgaaat tctgtcaagt tagtatatta aaatgcttta caaaaatgat aacatagcat 300
ccaaacatag cataagagta ttgcttctaa tgtgaagttg tcaactaaga tctctccata 360
agctaagaag gcaatattac ttgtaagcta cacatatagt gatagagata aatcactttc 420
aagtagatth ttttaattcta atgctattga ataggggacg atgaaaaaag ggaaaattgt 480
tgcaggaaaa aatttaattt caagaaaatt ccacaagata gatgacggat ttgaaa 536
```

<210> 3948
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3948

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ttgaattcta gtaaaaaaaaa ctccctcaaac atattataat actcatgcat cttttacatt 60
caaaaccaga aacttggatt cctagggcatg agtcatcctt ttggcacttt agtctagctt 120
ctacaaacta cccacacact cacaatgcgc acaatttatt tcgcaagcta agttccacaa 180
aatcatgcgc aaatgccatt gaggcatttc accgaacact tgggtgggcgc atgtttaagc 240
atgaaaatca aggggaatggg ggcaatgtgg catgccccat tatctcagaa cgcaccctag 300
gcctaaggcc atcccctaca acccctcaat tcaacaaaaa caagcaataa ttcaaggata 360
aatccctcac gttttgagca aatacatgca acttagagca ccaaaatata tcaatggaaa 420
gccaaagagc ccaagaatga ggtacttact ttntggagat gaataataga gcaaaatgga 480
atcaaaaacg tgaaaaatga tgacctatgg gctgcaaaat tggtgattcc cgtagccttc 540
tttttgaatg aagggggggg 560
```


<210> 3949
 <211> 603
 <212> DNA
 <213> Glycine max

<400> 3949

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ttaatattac gagtaaataa catatacaaa gatgattaat ttttacataa tcaatcacat 120
attatcatat aatgtaaatt gattgatagt aataataaaa atataaaatt catattaatt 180
atgatttaag ttctaaacat tatagatgat atgataaaaa aaatgtgtat aaaaatgaga 240
aattaagcaa taatgagaga aaataaaatt gaataatgaa agagagaaag agtgtgaccg 300
tcacagcttc caatagattg gtgttgctgt gcaagtactt gaggacccat gttagaacac 360
ttgctgtggg gtcattgtgc gcaagatga caccaatgag attatcaaca acttgagaat 420
ctgtgtgctg ctgatagtac atcttgttct tctcacctcg agcttgcaat agaactccca 480
atagcccccc accataatth aacagattat agactcttat aattacattt caacagaaaa 540
acccaagtca gtgtgaccat caacaaatgt tacatattat atataaccag tgctggataa 600
aaa 603
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<210> 3950
 <211> 624
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3950

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aattaacttg tattgaagca actaattaaa ctccctacca ataatgaaga gagcagcttt 180
ccaagaacca gttgaagctc tgagtggaac cctgcctttg tgggtccactg aagaatcaag 240
aaccatttc acctcatcac cctcttctgg ttccacttca agactaacct tcttctccat 300
cttgcaagtgt tgcttcagta ttgctacttt aattctactg caagtagaga agactaaccc 360
ttctagcctt gcttcttgct agtgtctatc tatttacacg caccaacctt taacctcang 420
acctctcttt atagaggagg atttgctntc tttctttatt tctttttttg aaaacttatt 480
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ccttttttct tttctgttgg tgacataata aagatatctt ttaagtttta attatatcat 540
 tcttgatattt cttttcacca taattttctta gactcatata ttataaaatc actttctctt 600
 ttttttctct ctaaatttttc tctt 624

<210> 3951
 <211> 493
 <212> DNA
 <213> Glycine max
 <400> 3951

gcaagcttct atataagctg aaccatttta tcaatattca caagttgagt ttatttcaga 60
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 caagaacacc ctggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgctgga 180
 aagagtgatt ctttctgat acgaaatcag agtgcggtaa cggaagcaaa caaccaataa 240
 cgaaggactt aggtaccacc cttattagtc gaattctttt aagtattttt ggtatttgtg 300
 tgtttgggtt tttacgaaaa tcagcaagga aaaataagca atattaaact acaccaatag 360
 cttaatagca gattagcact caccaccaat tgagctaata ggactatttt caagacgacg 420
 cttgcaaata atcgggcgaa aatgtaaacc caatttctat ttggactgaa ttgttcttgt 480
 ttattgaata atc 493

<210> 3952
 <211> 606
 <212> DNA
 <213> Glycine max
 <400> 3952

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 ttctattttc agattgggaa tgcctctaac agcacttttg tcaaggattt tcttcatgcc 120
 tcttaagtgc agatgtccca acctttgatg ccataattctg acttcatctt ctttggagga 180
 taaacatgtg gaggagtacc tggtttcttg ggggtgtccat aggttaacaat tgtcctttga 240
 tctgctgccc tctattagaa cttcactctt ctcatattgt accaagcatt ctgactttgt 300
 gaaagttaca ttgaatcctt catcaaacag ctgactgatg ctgatcaagt ttgcagtcag 360
 tcccttcacc agcaatactt tgttcagact aggaagtcca tcatgaacta cctttcccat 420

tccaatgaac tttccttttag agccatctcc aaatgtcaca taactagtgg agcccggctc 480
aatgttcacc aggaattctt tgactcctgt atgtgggtggg aacaaccgct atctaagtac 540
ccatcttcct taactgatgc tctaattggag gatgaacaac aagaatgaag tcttgtgttt 600
aggaac 606

<210> 3953
<211> 566
<212> DNA
<213> Glycine max

<400> 3953

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acgcatcaac aagaatcaag ccgaggctat tgtgcaagca atcaatgggg caaaacacac 120
caaatgatta taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa 180
ttgagctttc aaaactatca tgacatgtag agaagaatta acgattttcaa gtcacaaaat 240
gtcaagaact tttattttca aaacaattac ccatttcttg aacatatacct ataattcaaa 300
gaaaaacatg caaagtcgta cgtgcacaca aaattgaccc aaaatatata actgaaaatc 360
cgacgaaact aacaacatta acaaattaac acaactaaca aattaacaaa gccaacaaaa 420
ctatcaaaac cacagaacac tcccccccat acttaacaac acattgtcct taatgttgcc 480
caattaaaag attaaaacaa tttaatcatc aaagagaatc cgaccagtgt aataaagcca 540
agagggaaaa ggaaaataaa acttcc 566

<210> 3954
<211> 605
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3954

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tagtggacaa tgtagttgag ccttgcatct tgcataattca tgttactaag ttagcaccga 120
taaagtaata gcttccacta gtgctttttc tttcaacttt atcaccaaca tagtcaacat 180
cataatagct tgtaagtctg aaactttctc ttcttttgaa cataagacca agattagaag 240
ttccaattaa atatctacaa atatgtttaa ttttagttag gtgaacttcc ctttgttctt 300

tttgaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360
agaccagtga gttgcatcca ctttttttga tccttgtcca atccaaggta tgtcatgggtg 420
tgcattggag tcttcatttc ttttcatcgc ccatgttgaa tttcttcagc aattctttca 480
catacttagt ttgatgaatg tagatgcatt tggctttttg gtttatttgt aatccaagaa 540
agaatntcat ctctcccatc atgctcattt caattttgtc tgcataagca tagaaaaatc 600
ttcat 605

<210> 3955
<211> 529
<212> DNA
<213> Glycine max

<400> 3955

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attcctaatt ttcaacttac ctatttggat gtgacatcat ggcagatagg tcccaacttt 120
ccgtcgtgga ttcagtcaca aaacaaactt caatatgttg gactgtctaa cacggggatt 180
ttagatttta ttcccacttg gttctgggaa gcacattctc aggttttgta tttaaacctc 240
tctcataatc atatccgtgg tgagcttgtg actacaataa aaaatccaat atctatccaa 300
actgttgatc taagcacaaa tcatttatgt ggtaaattac cctatctttc aaatgctgtg 360
tataggttag acctttcaac caattcattc tctggatcca tgcaagattt tttatgtaac 420
aatcaggaca aaccaatgca attagaaatt ctcaatcttg catcaaataa tctatcacga 480
gaaataacctg attgttggat gaattggcca tttctagtgg aagtgaatt 529

<210> 3956
<211> 439
<212> DNA
<213> Glycine max

<400> 3956

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gcaaaaagtg aagtgtggaa gtgaagctga agaagatggg aagtgacgtt gtggcagagg 120
actccatacc agtggcaaca gttggtatga ttatgattcc aagaccaaag cctattggaa 180
ggatctatga gattattctt aaacttcaaa agtgtctcac gctcacttgg gatgcacaca 240

ctctctctgc atggtaagct caacaaccaa aggtggagaa agacaagaat ataaatggag 300
gaattcatga tcacacaaga atatatagaa aacaagtgtg gttgttggtt ctgcatataa 360
atcatcaaac ttctattatt tatactgctg ccctgcctgt ttttttttct tcactttcat 420
tattttttac cttttttat 439

<210> 3957
<211> 509
<212> DNA
<213> Glycine max

<400> 3957

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attaattttt tgctttacct tctcttccat tgatttttct tcatttttct ccatgtatct 120
cctcacatgt cttgttctaa atgttggttaa catgattctt tagagtttgc accgattaaa 180
cttgctatag aagttagatt tgattttcta tggttcaaat ttcttggtct tgatcttgaa 240
ccatgaattg tgttgagttt aggttccttt gagttttgtc ttgttatatt ttgtggctga 300
aacctaaacc ataaaattct taaaaaata ttaaagtaga agaaaacctc aaaaatctac 360
agtgacttgt tcacctattg tagttttgtc atagaagtca tgtctagtca tgaaacttgt 420
cacataagat ttcttatgtt gcgctgaatt atattttcct gactctttga ctaactcaat 480
tgggtcatgag tgtatgaaat tcttttagc 509

<210> 3958
<211> 474
<212> DNA
<213> Glycine max

<400> 3958

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taagggtagc atttcttggg aaaactaact ttccaaatgt ttgccttcat aggaatggcc 120
ccgacgaagc ttgcctcaaa gaggtccagg aaggacaagg cggccaaagg gactagctcc 180
gctcctgagt atgagagtca ccgctttagg agcgctgtac accagctgcg cttcaagcca 240
tcaagggatg gtcgtttctc cgggagcgac gcgtccagct caaggacgac gagtatactg 300
atttccagga ggaaataagg cgccggcggt ggacatcact ggttactccc atggccaagt 360

tcgatccaca aatagtcctt gaattttatg ccaatgcttg gccaacagag gagggcgtgc 420
gtgacatgag atcctgcgta aggcgtcagt ggatcccggt tgatgccgac gcta 474

<210> 3959
<211> 548
<212> DNA
<213> Glycine max

<400> 3959

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agttggacga aataggtaaa gttgtgagga acaaggctag gcttgtagcc aaaggaaact 120
cacatcagga aggtataaat tatactgaga cctttgcttt tgttgctcgt ttagaggcaa 180
tacggattct actatccttt gtttcccatt atggatgat gttgtatcaa atggacgtat 240
aaagcgcatt cctcaatgct attattaagg aagaattcta tgtggaacaa cccctgggt 300
tttagagttc tatttacct catcatgttt tcaaacttaa taaagctttg tatggtttaa 360
agcaagctca ttgagcttgg tatgaaaagt taagttcctt cttaactgaa aatggtttta 420
taaaacggaa cgtaaacact attttttttt gcaaagatta tataaatcca ttctaattg 480
tccagatata tgacgatgat atattattta ctgcttctaa tgactttttg tgtgaggact 540
ctttcaaa 548

<210> 3960
<211> 653
<212> DNA
<213> Glycine max

<400> 3960

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ccctggcggg agactctctc tctctctctt ctctctcttc tatttttcgt ttttaattat 120
agtcctctct ctctttctct tttattttcc gttttttaca attccagttc agacttttag 180
ttttatcaat aaaatttcat tctctatttg attaatggaa ggctaagtcc gcaacgttgt 240
tttcccttga ggatcaagca cagttctttt tgaggttcta ttattactgt taaattctgt 300
ttagttgttc ctcttcaacta attactttga atttgttgct ttttaattcat gcatgcttaa 360
tgcttgatta attgactctg cgcttaattt acgttcatgc ttaatgatcg cttatgagta 420

ataggcgtat gtgatgctca atcacataat gaatgcccta tgttgaatth cgcttaataa 480
 ttttaatttac gggttgatta aatgggttaa ctgataaaag ataaactctc gtaacctagg 540
 ataagagact tgcttgtgaa tcaggggaag caacgggggtt aatcttgata tttctaaatc 600
 acatatatth gtgttaactt acaaagcaaa caaccccccc ccatcgact gtt 653

<210> 3961
 <211> 544
 <212> DNA
 <213> Glycine max

<400> 3961

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 tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcaccc ccacctthac 120
 taaatacacc cccttgcctt tttttggaga ttcttttttt gtaaagatac gaaaacttac 180
 ggatttcgca atgatactag ttttctttcc gtaatggtct acggaacctt gcgaattaca 240
 taatcatccc cttttttgac ttatggaatg ttacggaacc ttactaattg tgcaacgatg 300
 cttcattttg atttctggtg tttcacggaa ccttacggat tgtgcatcaa taccttcttt 360
 tgatttcggg catgtcctgg aacttcacaa attgcctaatt gatgggtgcc aagcacctca 420
 caaggatcaa acaaaaagttg cttgccccca agcaaaggct cccggacgaa attatggtat 480
 gacaataatg aacattatat tcttggattt gtccggtatt acattcccat ttgcgatgaa 540
 tcat 544

<210> 3962
 <211> 546
 <212> DNA
 <213> Glycine max

<400> 3962

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 aattgtttgc tataccttct cttccattgt tgtttcttca tttttctaca tgtatctgct 120
 cacatgtctt gtgctaaatg gtgctaacat gattctttag attttccacc gattaaactt 180
 gctatagaag ctagatttga ttttctatgg ttcaaactct ttgatcttgt tcttgaacca 240
 tgaattatgt tgagtatacg ttcctttgag atttgtcttg ttattttttt tggctgaaac 300

ctaaaccata aaattctttac aacaatatta aattacaaga aaacctcaaa aatctagagt 360
gacttggttca cctattgtag atttgtcata taagtcattgt ctagtcattga aacttggtcac 420
ataagatttc ttatgtcctg ctgaatttta ttttcttgct tctttggcta actcatttgt 480
tcatgagtgt atgacattat tctcacctat tatttgattt gagtcaaata ttgcatgtta 540
attaac 546

<210> 3963
<211> 580
<212> DNA
<213> Glycine max

<400> 3963

agcttgtctc agcgtttatg cgagacagag accaacaatgc tttctatcat cgccaagtac 60
caagaagagt taggtctagc cggggccac aagcataaga ttgcggacga atatgcccac 120
gtatacgcg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg accggtttgc tcttaccttg aacgggagtc aagaacttcc ccgcttatta 240
gccaaggcca aggcgatggc agacacctac tccacccccg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttgatg gccacataa ttagaaatcg ttaggaaact 360
tgtatggtct ctcagacctt gactagatat gacttctttt tttgaaataa aatgagtagg 420
tcccatgttt ctactccaaa aagcttgtgc aaataaaatc actcctacat ttaatctcta 480
gcatgcctta tctatctttt acccactcct aacgtttggg tttttaggga aaaacaccca 540
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<210> 3964
<211> 705
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3964

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ttaaccataa tgaattcccc tattctaaaa ggaagaactg aaatccccctc cgtaaaggaa 120
gaactgaaat cccctctaaa tctgaaagggt tggaataatg gaacccaaca acccacaatt 180

gttcatttta aaaagatgga aaccatgatg tatgactatt agaaatttta gtttactcat 240
 ttctttcagg aactttggaa aggtgtacta attagtttga aggtttaaaa tcacaacctc 300
 agcttgagtt ggttgcattg angaccaaca tgttgtggaa atttcatctg caaaagaaac 360
 taatatggtg tcaatactca atagtaggaa gagcaacaaa tgatagatca tangaacttt 420
 gtttttagtt attaccatct tcaactttgta agtaaattgt ctatacttta gagaaagata 480
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 ttccctcaaa aaatatttga caatatttgg accatcatgc cttgctgttt ttctctaagc 600
 ccttcattca ggttattttg ggctgtgtca atcctaagtc tttttcttca ttcaacttgt 660
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<210> 3965
 <211> 697
 <212> DNA
 <213> Glycine max

<400> 3965
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 caccatata caatcaaggc agcttcgtta cctagattat ttacacgtac ctccaagggtg 120
 tatttggttac ttacatcaca cacatctcct tggctaaact cacatacatg catactcaag 180
 cattttgggg caccaaaaat tgcacatgtg cacatcttgg catttctaata acctacatac 240
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 tttttttcaa gttttcgcta cctaaagccg catgcaaatt caagcatatt ttccctttgct 360
 gactaaaatt gcattcaaat ttaaaaggta ttttttttgt aatatgtttt cttcacataa 420
 catgcaacat atttatatat attttttttg gagacatttt tgactaccaa aaattatata 480
 tacatacatt caagtatttt gctattcata ccaaagtgc caattgcaa aggtatcttg 540
 ctacctattc taaacctaca cattcatgac gagcacattt tctaaacaac taggcgtagg 600
 gaaaaaaata tattggggcc catacctgat tgctgcccaa aaagggttac cttacaaaaa 660
 tgccctcct tttgtatctt tttgcataaa atttaat 697

<210> 3966
 <211> 502
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3966

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caagtacctt ggatttggtc cgaccatgcc ctcttgattt ccagctggga aaatggcggg 120
tggaagaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
ctctataatt gggcctaggc tttagagttt tcattttgtt aaggctttgt gtcttttgtc 240
tttgaattta taatacaagg atctttcttc atttgttcct ggtctctacc cattctcatt 300
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actaatacct gngacccgtc tatcaacttc gagcaagaaa tgaaccaaac ggaagatgaa 420
ggagatgagg aggtgggact tccttcagaa ctagaaagaa tgggtgocca tgaggaccaa 480
gaaatggggc ctcatcaaga ag 502

<210> 3967

<211> 600

<212> DNA

<213> Glycine max

<400> 3967

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acggatcatt tttcatgccc atacggctca taagtgatca caattcaagt aaacagaacc 120
ccttgattct ctcttatgac ttaactacgt aggtctgatt tcctctcgca cagtgtagga 180
ctacgtacgt atactgaagc cccgcttttg tcgactcatc aatagtaaga ataaatccaa 240
ggaactgtcc tacatttggg acaaactctaa attagtacgc tgctgtcctt tgaatacaat 300
acgtgatagg cgctaattcc ttactcagtc gtaagtgcac ctccagacct gataattttc 360
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ctccatgcat catttcttgc ttgaaaagc acgcccgtga gcctcgctc gctcgccgc 480
aaaagggctc gcttgcgaca ctaggaatct aaattggcct tggcatttta cgggcccacg 540
gcaatattcc tataagacac ccctaaattt taatattcct caccaacagt atgtcttgcc 600

<210> 3968

<211> 388

<212> DNA
<213> Glycine max

<400> 3968

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agtgaaaatg aattatttta tatatatgcc aaattttctc atgaccttat tttatataaa  120
agctgtgtat gtgcttgtac cctccggttg tattccaaca tatcatattg cattttcatt  180
tttaagcttc ttctgtctat cgtatcgtat ttaaagttga gagattgtgt attctcttga  240
tgaagtatgg acacaaacca ttaaagtcac tggccgaccg accatttact ctgttggttaa  300
tcaacttcgt gccacaacct ataggagtcc aatctcattc aaaccaataa catgtcatca  360
taataacctc ctacgggagc catttata                                     388
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<210> 3969
<211> 589
<212> DNA
<213> Glycine max

<400> 3969

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accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg  120
aatatgcttc atggaattgg gatgaaaaaa aagtggagaa gaacgttctt ataccgctt  180
aactacctca agaagaatat gaggaagaag atctagtgta accaccttca cctacatcac  240
aacaacaaga tcaagaacta tcatcaccag agtctactcc aaaacgagta agatctttgg  300
tggacatata tgaaacttgt aacttggcca tacttgaacc tggaagcttt gaagaagcgt  360
caaagcacga agtatgggtc aaggcaatgg aagaagagat acagatgatc gagaaaagca  420
acacatggga gttagtaaata cgtcccatg gaaaagatat cattgggggtt aagtgggtct  480
ataagacaaa agctaaaccc tgatggcacc atacagaaac accaagcgag gcttgtagct  540
aaaggtttct catagcaacc cggaattgac tacaatgaga catttgccc               589
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<210> 3970
<211> 705
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3970

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agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accttggtcg tatcaaagga ctttcacaac ctttgtgtgt agccctcgct ggaaagagtg 180
attctttcct tcctttcatc atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
cctctgcca gaattatctc gtggccataa ctccatttt acgcactcaa attaagtgat 300
tcttgagcct aaattgaatt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360
ttggagccct gtagcttcag ttattgccat ttctatattt ctgtccagcc accacttaac 420
ctacgtttta ccatcccatc catccatttt atgccaagaa ccaccttatt aagaccacg 480
anattagcca ccttattttc cattctttcc ttaatcaatn tccgcatttt ccatcaaggt 540
ttaatcctag acgatcctaa gtcagccctt gtgccatgtg gggtcatatc atttggtatc 600
agagctccgg tctaggatca acattccttt gctgggatat tggtaacatc cttcttattc 660
tctttgcatt tatataccct cttatcatat atatttttta ggctg 705

<210> 3971

<211> 468

<212> DNA

<213> Glycine max

<400> 3971

agcttctctc ttttcttggt taattattat attttgttt taagtcttgt attttgctat 60
gtttttatgg catttgaaca cttagtattt ctttttaata tttgttgagt atgactgaac 120
atgataatta tatttacttg cttttgggtg tttatgggta tgaattttta acttaattat 180
tttgataata tatgatcagt ggtatgtttg atcaaatatt aattatgtta tttgataatg 240
tggttttttt tatatatattg atctatttat gggtcttgct atgatttggt ttatattttt 300
ccatgaatga ttgtatggat gcttaagtta tatttgatg tttttaattt gttacgcact 360
ttggcatttt gttgatgcc aagggggaga aaaatatgga ttaaataaac aactcacacg 420
agtaatcaac ttacttttta gagaagcatt aattcaaaaa caaagggg 468

<210> 3972

<211> 525

<212> DNA

<213> Glycine max

<400> 3972

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tatgtttatat atctaacaat aatgaatcta ttaatatagc ttacaagtgc attatgcata 180
caatttttagg tccaagtcac tgcatatatt ttcacgaacg aaatcaggac ctgcatattc 240
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ttcttatgag catcaatcaa gaacgttcaa ttatttatat tacatgatag acaaaactaaa 420
tttagtttat taatattgaa cacttttttg gataatagaa ataattttta tactttaacc 480
aggtcatttt tatttgcctt agaataggca ttatgtgcac tttct 525

<210> 3973

<211> 473

<212> DNA

<213> Glycine max

<400> 3973

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taagccgtaa cttcacttaa tcaatgtgaa aatgaatttc aaccaattgt ttgcgtcgta 180
atctcatata ataacattta aaataaaaatt caaccgatcg tataatgttg aacctcggtt 240
aatcatcaaa agggaaagtc ttaaccaaatt attactttg aaagttctct ctaattgagt 300
taagaaataa ccaattgaga ctaacgctta catcaactca catatcaagc ttttgcccgt 360
aaaaaggtca tttgaaactg tttgaatgtc caacgccttg acgggtcccc acttactttg 420
atccatttaa gtatacattt ttaagggaaa cattttcgac cccataaat ttt 473

<210> 3974

<211> 317

<212> DNA

<213> Glycine max

<400> 3974

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 aaaagatgta actcttcaaa ttgggttttt tctaaaagtt ataactcttc aaaatggtct 120
 tcatgaccag acatgaagag tctataaaag caaggctttg ctttgcatth tcaatcaatt 180
 cattctttca cttttcactt ttccaatcaa tcctttacaa gccttgaatc tctttgaact 240
 tcttcttctt ctttgtacca aaagatttct gaagttttct ggctttccaa accttgaaaa 300
 cttgtgctat tcatctt 317

<210> 3975
 <211> 572
 <212> DNA
 <213> Glycine max

<400> 3975

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 aaaaggacat gtcaaaaagg ctaccaatac tttctgatag tttgccaaac tataatgctt 180
 gtcaatttgg taaacaaaat agaaaatcat tccccaatt agcttggaga acctctcaaa 240
 agttgcagct aattcacact gatgtggcag gacctcaaag aacaccatca ctacaaggta 300
 gtctctactt tattcttttc atagatgact ttacaagaat gtgctggatt ttttttcttg 360
 aaattcaagc atgaagtggc tgaagttttt tgtaaatca agaaaatggg ggaaacttca 420
 agggacctga agattcaatg aaaatgggaa agaatatcca tcccataat tatttacttt 480
 ggggaacacc ttggtttgaa tattaactca cagcccccta cctctgaac attggggatt 540
 ttgaaggatt aacaattcat tgttggaag gc 572

<210> 3976
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 3976

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 ctttcaatgg acccactcaa aataataaca ttgaagcttc tagagagtga cacgtagatt 180

atacaaatat aatagttaga aatagatagt atcatattat agctgatata tatcagatga 240
 ctaacataag atgatcactg cttagctggac cgcggcgtaa aattcatgcc agtaaagat 300
 taaattttga ctttattaat tcttttaaca cttttttagt ggaaaaaagg agttgaatat 360
 atattgatgc ctactatatt cttatatcaa aaacagaacc gagttcta 408

<210> 3977
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 3977

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 taagtattgt aaatttcatt gtacttcaat tgcgacagat aaaagaaaaa gataaaattt 180
 ttacatacac tacaattata ggtgtcattg taagtgtgta ttggtacagg taactttttt 240
 gtagtgttaa cacctgtagc gacctgcctt gtcaatacga aatctctact ctaaaacacg 300
 acatttcaat tttttcatga tatacattca ccaaataagc ataaacatgt gtgtgtgtgt 360
 gtgcg 365

<210> 3978
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 3978

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 ccaacatcct tgaatttctt actatcagta acatggctta cgggattcat tgaaatcctt 180
 agtgagctta cgatatgaac ttgatcaatt gaaatttaag catattttta atttgcatta 240
 tgtttgtctt tcagattaat tatatattat aaatttgttt ttctaattctt cgcacaaggt 300
 ctaagtctac tattcttaga tgataaacag agttcatggc acatg 345

<210> 3979
 <211> 709
 <212> DNA

<213> Glycine max
 <400> 3979

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cttcaagggtt ttgtatacaa taaaatcggt aaggagttgt ggcataatgcc aaaagtgggtc 120
aatagctttt gcaggggaca ttgtgctcaa gcccaacaat tagtaccatt tccaccaaatt 180
gattttgtgca gttttacatg agaaaagtcc atgagagaca tcctcataca ttagattaca 240
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acgatagggtg gatattaccg tataaaacag tggcaatgcg ggttttaagt tactaaagac 480
gtacgccccat tgttaaattt acctcccaaa attgctagac ataacctttt tttttataac 540
ccttttttcc aaataaaaaat accccacttg ttaaattctac ctctataaat attttctttt 600
ttattattttt gatttttttt ccaataagga tcacctttgg gaaactactt gcaattttcc 660
tggaatgaga aagatccttt aaaaattgta ataaaaaggg gtgaaaaaa 709

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<210> 3980
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3980

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gaaccagct gcaaaatatg agcaagcggg agcatgagtc ctttaaggag tacgccaac 180
ggtggagaga cttggcggca caagtggcgc ccccatggtg gaaagggaaa tgataactat 240
gatagtggac aactgccag cgttctatta tgaaaaattg gtgggttaca tgccctctag 300
cttcacaaat ttagtatttg tgggcgagag gatcaaagta ngcttgaaaa aggggatcag 360
cggttaatgc ggtggaagaa atgtgacctc agaagctgaa gtagttgaaa gatgtgataa 420
cctcgaggaa gtttat 436

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<210> 3981
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 3981

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 gccttggtgg tagctatatt tgcactcttc agtccggcat tcttctttcg gatcttgaga 240
 gctgctgatt taaacctttc ttttactggt ggggcttctc caattc 286

<210> 3982
 <211> 605
 <212> DNA
 <213> Glycine max

<400> 3982

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 ttattcccta gtggatggcg cctcctctca cctcttcttc tttatcttcc actgcatctc 120
 cacaattgaa aatcaccatt gaaggacctc attgaagctc aaagatccaa cctctataga 180
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 tcttccactc ttccttaaag tttccgatta tctcattctt ccaatcttct ttaaggattc 480
 caattatttc acccaaagt tgttgggtga tggatgtaaa ggaattgtta aaccacgtga 540
 tgcccttcca tagttgtgac tgatttcaca ctaaacccat tgcacgaaca tgacctacgt 600
 gctcc 605

<210> 3983
 <211> 528
 <212> DNA
 <213> Glycine max

<400> 3983

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tttggccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240
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ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360
catacattcc tccaccaatc caacaacagc aacaaccca gaaacagcca acagttgagg 420
ccctccata acctttcctc gaagaacttg tgaggcaaat gactatgcag aacatgcaat 480
ttcagcaaga gaccaaagcc tccatttaga gcttaaccaa tcagatgg 528

<210> 3984
<211> 481
<212> DNA
<213> Glycine max

<400> 3984

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agccgccgat gatcccattha ctgcttcccc taagctctct gttctttctt cacaccgcat 180
cacatgcctt gcaaaactcct tggagtacct ttgcattggg gtcactaaaa ccccggtgtaa 240
tgaaaggcgt gatgctttcg tcaaattggcg ctctctcat ggggtagcca agctgtctta 300
tggcaaggac aagattataa tttatacaac cccttggtcc cattaaggga acatttggaa 360
atccttcgca tgaagataga atcctgattc tttcttcctt ctacgagagg aaccaattaa 420
cagacgcccc tctatgctaa ccaagaattg gtcccaattc gtctttcttt tttcggcgca 480
c 481

<210> 3985
<211> 595
<212> DNA
<213> Glycine max

<400> 3985

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 ggggctgtac acgcttcggc catggctttt gctttggcta atagtcgcgg gaggtcttga 180
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 ttttgcctcat gggtcacaga ctggttcaac tcttcttat aatgccctat gatagctagc 360
 atgctttgct ctgtggcttc caagtgttga gccaaactcc tcttggatct tgtgcaagca 420
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 agcttgaact ctttttgcct accccacaaa gcttctcgga atttctctcg gccatgggtc 540
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<210> 3986
 <211> 503
 <212> DNA
 <213> Glycine max

<400> 3986
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 taaagccgaa ttcaatgggt gtctgtgcct tcgacggcac ccgccgagag gttaggggag 180
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 tccctctaca ctccaccaa agttgaaatt cgtagtggaa gggcatctgg tcatcgatc 360
 aagcgaggaa gacatcttgg tgagctgccc atctctatg ccttatgtgg aagccgcaga 420
 agagtcatta gacaccgctt ttccatcttt cgagggggta agcattttct ccgtggattc 480
 cttctctgag caagcttgcc tgc 503

<210> 3987
 <211> 589
 <212> DNA
 <213> Glycine max

<400> 3987
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 aaatatgtga tcctcttggg catctggggg tttcatggtg gagcagacaa tgtgaaatcc 540
 tttcaaagt ttgtgcgggt cttcacctgc aaggccatga aactttgga 589

<210> 3988
 <211> 546
 <212> DNA
 <213> Glycine max

<400> 3988
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 gctgcatctc catggtggaa aatcaccatt gaaagacctc attgaagttc aaagatccag 240
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 tacaaactcc atggcagcta gcaaacccta cgctccccc tactaacc acatgcacag 420
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<210> 3989
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 3989

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atagttcaaa cgttcatcct gcctcataaa agaaaaccaa aataatgaat gtttacatga 180
attaacaata actccatatg tataattaac aataagggtc acctatctat atggaagctc 240
ataaatgaca ttatttataa caattatgct tttgccatat tgaggctgtg ggacaataca 300
attatcctgt attgggtcttg gatgagggggg agggaaaagg attttaatgg tccttatcac 360
caatgggggt aatctatggc tgtggttttt aaataccgaa aatgtctgtt ggattgggtg 420
gaatagctat ttgataggag gttgcatatt tttatttact tt 462

<210> 3990
<211> 603
<212> DNA
<213> Glycine max

<400> 3990

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catacaggac atatcatatg agagaaatat atattatatg agagtgagaa aattaaatct 180
aatccatata actaaaatat tgatcatcat catttaatgt catttgaccc cttaagaaat 240
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gagaaggggtg ggatattttt acatataaaa ggagatgggtg aaggtagttt tgaaagaaaa 420
tcaaattcat gaggatcact ttaatttatg agaaacacat ttcattatgt taattgtcac 480
ctaattgtaa ttcaagattt ggggttaaaac accaggggaat aaaaataaaa attttaatat 540
attatgtact taaaacaaca aaaaaattat tttggactca gaaacaaaat cccttcttta 600
tta 603

<210> 3991
<211> 308
<212> DNA
<213> Glycine max

<400> 3991

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 gcaactgtcct ttctagccaa aaagtga aaa tactatgcgg ctcaaaattt aaacttagac 180
 atatgttctt gtgccaaggg gttaagggga cagcaacttc tgtcatcccc tcttttggcc 240
 cttatatatt tatgaactcc acaccttgat gtagaaaatt caataaactt tttgggtcac 300
 ccgatctt 308

<210> 3992
 <211> 539
 <212> DNA
 <213> Glycine max
 <400> 3992

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 gatagacagc acctacaaaa caaacggta tagactccca ttgctcgatt ttgttgggggt 180
 gacaccgact gggatgacat tctctgccgg ttttgcatat gtggaggggtg aacgcgttaa 240
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 tgattgtcct tcaaaacaac agtttgatga atgccttgaa taagttcgaa atagcttgc 539

<210> 3993
 <211> 923
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3993

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cttagacctc agcaacaaga tataaatctc agcaaaagga tcatgacact accgacaaca 420
gacacaaccc cgaatggagg aatcaccccta accttatatg gccagccct caacaacaac 480
aacagcagcc tgcgcctaac ttacaaaatg actgccgctc caacccaagc atacactcct 540
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aaactttctc taaacaactg ggaaggaaac gactaatcaa aaccttacat cctaatacag 660
aaaacgaagt ctccattata gacatacacc attcgaatgag gacaatagat gactaaatga 720
aacaaaaaca tcccaaaaaa ttctataacc atctgtttta tcggctgaat ctcaaaaaat 780
gaaagcgctt tatgcttaaa ggtcgataac aagtgatgaa gagcttgacc cgtagtaagc 840
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catcacttgg caatactggg act 923

<210> 3994
<211> 631
<212> DNA
<213> Glycine max
<400> 3994

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ttagaacaag cttatgcgca tacttcttta cgagcgttca cttgcacaag acattcttat 180
aactaagaaa aatgcaccca tatacaatca aggcaccttc gttacctaga ttattttatat 240
gtacttccaa ggtgtatttg ttacctacat cacacgcatt tcctttgcta aatttacata 300
catgcatact caaagcactt tggctatcaa aaattgcata cgggcacatt ctggtatttc 360
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atttcgatgct cttttttaag tgtttttact acctaaagcc gcatgcaaat tcaagtatat 480
tttcttttgc tgacctaaaa tgtattcaaa ttaaaacgta tttttgtaaa gtattttctt 540
tacataacat gcaacatggt tatatatattt tgtgatacat tttgactacc acaaatcaca 600

tatacatata tcctagtatt ttgctactac a

631

<210> 3995
<211> 382
<212> DNA
<213> Glycine max

<400> 3995

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taatctcgtc tactttggca accctatcat gagcatctaa aagagttata accactogat 120
aaagccgaaa catcgctaaa tctatgccaa aatgaatctc atcccatggg cgccgtacac 180
atcgctctata ctatgcttaa aaataaagtt caaccgaccg tctctgtttg caccttatat 240
tatcataaga acggatagcc ttagccaaat attgactata aaagaccttt attgttccat 300
tcaaaaataa cgctgtcaac ctaaggctaa aaacaactct cagaatgtgc tgatgccacg 360
aaaaggggtca ttccaaactg gg 382

<210> 3996
<211> 414
<212> DNA
<213> Glycine max

<400> 3996

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ccgaagacgt tgcatttcgt actagcatgc ttctctgagt tataactatg aaaaatggtc 120
gtggaggaca gacatgggtca gtatataacg accatgctgt gaactgcttt ggcaatcaaa 180
gcattctttc actgctcacg ctttagagca atcctttaca agccgcgaag cgctttgagc 240
ttctgcttct tctttgcacc gatcgatctc tgaagtgttt ctgggtgtcc aaaccttgaa 300
aaccagtgcc atgcatactt tcatactctt gaccctatgc catccaaaga tctaccacgg 360
actaagcgcc tgaattcgcg acgtgtctct cttcttcctt ctcgaaagga acca 414

<210> 3997
<211> 601
<212> DNA
<213> Glycine max

<400> 3997

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 gagtcaaato aattcaatta gttagatttt aattttgaga gtttgaatta aactogattc 180
 gattcaatat gtataaaccc gttaaattgtg tggggatgct taaccggctc agttttttta 240
 agcogtgatc caacctaatt ttgcattgat ctgacattta attaaattta ttacatatat 300
 atattaaatt attaaatata taatatatta ttttttaaaa atactttact aaattattaa 360
 atcaaattat tcatgttttt tattatatatt tcatcttgat tttatttata tttttcatat 420
 tattgcatta tttgattttt tttaaaaaat aaaatatggt atatattagc atttaaacaa 480
 ttcattctat caaacaaata tgtcacaaatt taatttattt aaaggacatt ttcatatatt 540
 tacaagttt aagataaaaa ctttttattt aaaaacttta ttttataact cactttgaaa 600
 t 601

<210> 3998
 <211> 558
 <212> DNA
 <213> Glycine max
 <400> 3998

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 ggtagtgaat gtggcttatg gggcggaat gatagtactt aataactaaa atcaagctga 120
 agaaatttat gttgatcttc atattttgct agccacttcc ttaggagcct ccagtggtaa 180
 gactattaag acctatattc tatctgataa gaaaccaaca acttcaattt cttttatggg 240
 aataaagtat attgacctg caccagtaat gagagcattt ttttctaaaa gaccaagtat 300
 agtgggacta gatgtgactg acccaactgc gaatatcttg gctgctcggc cactaaaaac 360
 taaccctaagt tttatcatga atgacataag agaagtacta tttaacattc tcttaggtgc 420
 ttcaatgtct atgcctaatt ttagtggcat agcaacactt tttaaatatt tgcacactga 480
 ttggtcccct gcagctatca aatctgcttt gatgactact gcttacacat tgaacaacag 540
 aggagctgca atttcata 558

<210> 3999
 <211> 440
 <212> DNA

<213> Glycine max

<400> 3999

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gaagatttgt tattttgatt gcacaatgac taatggtaaa ttactttttg agtgggtat 120
tgtgtgagtt tttgtgtcat tttgcatgta tttttcttag tagaactcat gtttggacac 180
tagttttgta ttgcagaagc ataaccgctt aattgagtga aaaaattaaa gattacacaa 240
atztatcaag atttgatgac ttacacttg atcacggccg tgggtacattt accacgacca 300
tggtaatcaa cacaatgata ataaagtgat aacaatcctc taaaacaatg tcaaaatccg 360
ataatggtcg tgggtcaacta atgggggtca tgggtcaacta agatgggatcc attcatgagg 420
gtcgtgggta atccataatg 440

<210> 4000

<211> 619

<212> DNA

<213> Glycine max

<400> 4000

tctagaatct agtgttttgc gaaatcaa at tggaatttgg aacagtgcga cgttgtcat 60
gactttgagg tcctcaatt aaagggttag tgtaacattt gagtgagtaa tttcagtgt 120
aactggaaaa ttaaatgtat agtatacttg tatacattta gttgtaattg tatagaattt 180
ttagtaaaaag agaaccaaaa ctaatatag attaccagaa atgttaaaac taaaatattt 240
aaaatgcaaa acacaagata caacatttca cttgttatta aataattatg aacaaagtca 300
ctgagttgaa aaccaactct aattatacat aacacaactc aacattcaaa gttgtaaaac 360
ccccaaaag taaaacataa gtcaccttg aaaagaataa atgaaaatca aatctaataa 420
aattgaaata cgtaatatat tatatataat aaaattgtct agttcaaaaa tgatagtaga 480
atcattccca acatcatttc tcacaaaata caccaaagag ttataaacat aagtttatag 540
agattgatag agtataatgt acttaaatca caaacaatg cagaatagaa cagagttaga 600
ttttggattt gggaactca 619

<210> 4001

<211> 554

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4001

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actaccatat actttataaa ttaaaaaaat acattaaaag ttataactaat aaataaattt 120

tagtagatta taaatataat aatgattttat tatataagat gaacccaaca gttgggtggt 180

gagtgggaca tttgtgtatt tgagcttatg aatagaagta gagggaaacta gtgaagagat 240

aaagaagacg gaggcggttt ggagtatgac ttcttgcacc tcttttgcac cctttctcat 300

ttcttcttct tcatttcctt cattgtgctt cgcgcaaacc cactcaatca catgtaaaca 360

acgcttccca tttccttctg taaagggag aagaaagttc tcaactttat cattntcatc 420

cacaaaagg ctcgttacaa gagcgcgtga gtacaaattc ccaaacccta tttccgaatt 480

tgcaaatgcc gtgagtttat ctcttatctt ccattctatc actttatcaa gtgaataaaa 540

ttaacttcat gttc 554

<210> 4002

<211> 424

<212> DNA

<213> Glycine max

<400> 4002

tgtagaacta tgttggattt tccctacggt tgttttttgt tccacttttt ctttgttcaa 60

atatattcaa gggaaattcg gtttgccgga aagcacaccg gatcgtcaag tatttaaaaa 120

ttaaaacgga tgaatccgag tatogaacac agggaactaa tgtttacctg aattaagtct 180

agaaatgaag cattgttgag agaacatgta tgattgataa tttcaaaca aatttaaact 240

aacttttatg ctaaaaacta taaaaagcaa ggtaagtaaa agtgacaaca gtaggcagaa 300

attgttgggt ctttctaaca aacaagctga tgcatataaa tatatttctc taatcaatca 360

gactcttggt ttctatgctg tagcctaaat tactaaacct cgatccctcg tcagaccgaa 420

tcaa 424

<210> 4003

<211> 503

<212> DNA

<213> Glycine max

<210> 4005
 <211> 643
 <212> DNA
 <213> Glycine max

<400> 4005

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 agaaagggat ttaattaaca tcctgaattt tggaaaattc gtataattcc ttgctttcaa 180
 tctcttgga aattcatatc ctcttaaatt tattggtaat gcctgttact gaactaaata 240
 gaaacaaaag tttttaagct gagatctgct accttgatgt tcttcatctt tccatccttc 300
 agtttagtat tctagaaaaa ctttactgct tttccttggg tttaaacttt gattttctta 360
 ttataaataa tttctctata gttgtctaac attatttgct tcatgaaggc acagtaaaat 420
 atactttgaa atcatggctc acttctggat atgaagtatt gaaaatcaga aatatactat 480
 gggtaatgga acaccctatt tgataactta acttatataa attttgtttt tgggtcattt 540
 tgaggttttg ttaatgatgg aattaatgaa aaacctcttg gtggtttttt tttcttcaag 600
 ttatgacaac cagaacaggg atagcaagta ccaaccaat ttc 643

<210> 4006
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 4006

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 atgaagatgg ggggggggatt gaagacattg tggatgcgtt tgtgttgagg ctagggggaa 120
 tggatatggt gttaggagtt gcctgggtta gcactcttgg gaatgtgatt atggattgga 180
 aggccatgac tatgcaattt tcttatgaaa atgagttggt gaaattgcta ggtcaaggca 240
 ataaggtggt caaacaatgt tatttgaact cctatcttga ggatactcat agcacaactg 300
 aattgggctg gtgggggggt catctacagt taatggaag 339

<210> 4007
 <211> 213
 <212> DNA

<213> Glycine max

<400> 4007

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agataaagga gaagaagtga gaggaggcgt catcccctag ggaataaacc atggaaggag 120
gatcttcacc accaagagag ggcccttctc ttagaagctt gaagatgaag ctgccatggc 180
cgaaaagaat gacatagaaa tttacggggg ggg 213

<210> 4008

<211> 585

<212> DNA

<213> Glycine max

<400> 4008

tctcccctat tttcctataa atagggggag aaagtgaagg tttttatggt cagccctcct 60
ggtgattcga gatcacttga aattagtga aaaaattatt tccgtgaaga aaatccaagc 120
tgaggcgctt ccgtaacggt tccgtgggtg atttctcgaa gattttcaac cgttcttcga 180
cgttcttcgt cgttcttcgg tcttcaaccg ggaagttccc aaaatcgaac ttttcaattc 240
attctatgta cccttagtgg tcttcatttg ttttcacgtg cttttatttt catttcattt 300
acttttcgta cccctttttg acgtgcttta atcatttact taagtcattc tctgccttaa 360
tcaaaaaata aaatatattt ccaccgatca tttgaattgt aacatccggt aatttttctt 420
taaataaat ccgaccgttc ggtcatgccg taaccactt ggaaaccaa aaaagggttaa 480
ataataatat aatattcaaa atatctttta gttaaataaa tcacaaaaat cattcggacg 540
ttgttctttg ggattttctt tcttaaatcg aattcactaa taacc 585

<210> 4009

<211> 401

<212> DNA

<213> Glycine max

<400> 4009

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atatatcgag aactcgaag ttgaataccg aagctctgag caaattcaaa agacaataac 120
tttttactcg gatgtctgat tgagtctcgt aatatatcga gacgctcgaa attgaatacc 180

gaagctatga gcaaattcaa aagacaataa ctttttactc ggctgtctga ttgagtctcg 240
 aaatatatcg gaacgctcga aattgaatat agaagctctg agcaaattca aacgacaata 300
 actttttttt cggatgtctg attgagtcctc ataatatatc ggaacgctcg aaattgaatg 360
 tagaagcttt gaaccaattc aaacgaccag aactttttac t 401

<210> 4010
 <211> 528
 <212> DNA
 <213> Glycine max

<400> 4010

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 cctagggaaa taaaaaaact taatggctga gtgtaactga aattgtggca accaaaagtc 120
 accccaaca gccacaagt cagccaccat ttggtctccc aaaaggctga tgcctaagtt 180
 gccaatggg cccttattac aacttgaact aaacctaact aaagcccttt tagttgatta 240
 acccaaaaca tatTTTTTggt cagccaactt tacaaggatt gggccattat ttagacaaac 300
 taaacactct aaaattgaaa caaagtgggtg tcatttagtc ctctccatt tgggccatga 360
 tacaactcac aaccttggaac ttttctcctt gaaacttggg cttgtattca aacagtatgg 420
 acaacacttg ttgaagagct ttcttggctt tccttgctct aacccttgtc ataagtcctc 480
 caagtccttc aagtggatcc tttgccttgc tcttggcat gtcctcat 528

<210> 4011
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4011

ggacctgccg catgcatgct tgctattata tcatgtatTT taatagctcc attgttgga 60
 atttcaagat tgagatatga actgtgtcca cgtgctatga aagaaagaca cttttggaag 120
 atatatttca cacttgtaa cactcatgtg gctccgtaag tactgtatca tgctgatatt 180
 ccatgtacta tgttatattt gacaatgaag ggggaaacta gcttttctat tttcttaagt 240
 atttttgact aacttaactc tgattgtttc tttattcttc aaagaataaa tatttacata 300
 aataaaagac gtacaagaag gaaaaatata aaatatgcta gttattagag tat 353

<210> 4012
 <211> 513
 <212> DNA
 <213> Glycine max

<400> 4012

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aaatttaaag ctttcaaatt ggtttcttat tgactttatt gtacacaaaa atattattaa 120
gatataaatt tatgatataa cctcgcatga aaacttatta aataagtatt taattaaatt 180
taggggtggc caacattatt ccaatgcaaa ctttggagtg agctttttaca aaagttttat 240
attttgattt aggcttaaatt gtaattttta tcatcttatt ttattttaata tggaatcttg 300
attcctttat tttaaaatag atatttggtc tccttatttt aaaaaataac taattttaat 360
ctctctattc taatatataa acatttggtc ctcttacttt aaaattttta taatttttgt 420
caaatcttta attttacata tattttattt attttatttt gatccaatta attcttaaac 480
cttacttatt tacaataaag aaatgattaa att 513
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<210> 4013
 <211> 791
 <212> DNA
 <213> Glycine max

<400> 4013

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tgacgacctt acgggacacg tttcgaatgt tgatcttaca agaggctgtg atttttttat 120
ggcaccccc ggtggatcct cattcgtgcc aaagcacaag ctaggacgac ttacttgaaa 180
agtgcgtaat gagaaaaactc ttcttcgcga gtggaccgat gacaagattt gcccggtat 240
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atgcctatcg acgctatgaa cttaaattccg ctctccatct ctaagaacca aggatatctt 360
ccttgagatg gggatggctg atctttgggg gggcactgtc tataaaaaat tgaatccact 420
catggtcggc cagggtctaa tataatccgg cccagggtt ttcttgtaat aagaactccc 480
caaatgccc gtgaaggaaa cttgtaatgc caaaactac tataagggcg ctaaatggcc 540
tccccaacct tggggaacca tttttcatct ctttccttat gatgatggga atccgagcga 600
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gaccctttgg ggcttattat taactcgtga atgcgcatca aaacaccttt ggtcgttatt 660
 gtgtatctct aaatctgcct cttttatgaa aggttaattc tattctctct ttgggagagt 720
 ggtagttct cctacttct cgccatgtgt atgaattgtc accatatact cccactgttt 780
 tctgccctat t 791

<210> 4014
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 4014

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 atcaattccg ttttgtctat gaacaccatc attcctctt ctctctctt cttcttcatt 180
 atgacctcta ttctccattt gatccaacct ttcattggagc gcatcatctc gttggttcat 240
 taacctctcc atatgttgca tcaaagcttg catttggaat tgcgaaagcc ccaactccatc 300
 attaagatta gtacctgaca ttctcaacaa acaaatcaaa cgtaacaaga caattatagt 360
 tgctgggttg ataccttacc caactcaagt tatcacacaa ttatggcttt tctctaata 420
 aacactctg gcttttacca ctcttattcc ccttgagttc t 461

<210> 4015
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 4015

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 gtgacttgag acacaaattt gctaagagtt tatctgaaca acaagtgttt attctctcaa 180
 aaagcaaat cgttatatcc tcttaaaaat tccactggcc aatgcaattg caattcatta 240
 aggaatcatt tgagtgtca aattgtaaaa tctatctctt caagagagat tcattcttct 300
 tctctttcta attcactaac ggattaagag accgcgggtc tcttggttga aaagaattct 360
 aaacacaaag gaaggaattt ccttggtgtg ttagaacttg gaaaaggaat ttacaagata 420

tggtactct caagcgggtt gctatgggac tggac 455

<210> 4016
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 4016

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 gcatggatct gctgtcatga attgccctga ttgtcactct cgtgaatggt tatattgatt 120
 gccaaagccat cactctacaa aagtcttatt aaaattacta tgggacaaat ctctggctct 180
 gcttcttgga ccatgaacag tggttaattta acgcccctct tgaagatgct cttgtcttaa 240
 ctgaggctga ctc 253

<210> 4017
 <211> 1195
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4017

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 ctntctatct actatattga tatttagtan tctaactctgt aatacgnnnn nnaagagagg 120
 ttgtggatat gattcgggtg cagcagcctg ctatattata gaagcagccc ggcattgcaat 180
 gcattgtcct gagcattaag aaaaagctnc ttgtatcaaa tattatatag anctaggcga 240
 tcgaaattga ttggcatggt gagagtaaaa tctctgacgc aataagcgac acacattaga 300
 gagacgaata attcgtataa ttgatgagaa atctattggt atagaagaaa tagcgattca 360
 ctacgctct atgacaatgg aacttatatg ctggggggcgc tttatgatga ggaagacaaa 420
 taatgtatct agtttttaat ggtgaaaaag acatcatatc ctntgcttta tagggatgca 480
 ccttttatcg ctgcgtcaaa gacctaacgc atatggtaga gacaaataaa agctgtaatt 540
 gaatctcccg cttaaagaaa aatcagagta tgggctatag acacaggaag ggtaacaac 600
 ataaaacttc ttatttcata acaaaagcct tgagttaact tctggacatt tgtatgatga 660
 tacaaaaaat ctcgttaaaa tcatctaaat tacatgggaa agtaacgtga tgtaattcaa 720
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tcaatctaaa atggaatgga agtccgcggc caattataat actatagaat gtaaacccca 840
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ttagtttata aacatggttag aagcggatct gtgtatacac aaggacctag ctccgtatgg 1080
atcaatcccc tgttcgatct gcactagaga atattcatct tatcttagac acatacatgc 1140
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<210> 4018
<211> 520
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4018

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aaaaatttaa gaatctatct ttcaatcatc tctcaacatc atctttcaac tctttctaca 120
gaattttctg attcatttct cttcatcttt ctaaaagttt ttgttcaaac actttgtttt 180
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aagatttcaa aggactaact gctgagata tcttttgttt ccccttacia agattcaaag 420
gactaaccgc ctgagaattc tttgtnccaa cacattggat tgtacatcct ttgtgggaca 480
agtagagggt acatctactt acggaatggt atactgagaa 520

<210> 4019
<211> 620
<212> DNA
<213> Glycine max
<400> 4019

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aattttcacc tgtcgccaga ctctatgggt tatgctctct tattgaccac cacacagacc 120

tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gctgcaaaca 180
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacaaaac aattatgacc 240
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 aacagttgag gctcctccgc aaccttcctt tgaagaactt gtgagacaaa tgactatgca 480
 aaacatgcag tttcaacaag aaaccagagc ctttattcag agcttaacta attaatggga 540
 caattggcta catagttaaa tcaacaacag tcctaaaatt ctgacagatt accttcttaa 600
 tctgtccaga aatccccaaa 620

<210> 4020
 <211> 702
 <212> DNA
 <213> Glycine max

<400> 4020
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 ggctatgaag gtggacttgg gacaaacctg taaggaaagt ctataagtgg gcgtggaagc 180
 catcctaaat cgaaaacaaa gaagattggc caagtccatt gttgaatttg atgagataga 240
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 gaattatatg tattgatgta acatcctcag ctttacatct taatcatcaa gcggatagta 420
 taaacgcata tgatattggg actcaagagt ttataagtta aagggaactac attattctca 480
 agtaattata tcatatacaa caaagaagt gatccaacac atgggaccct tacatcaaca 540
 tataacaagg tttgcacaaa gaagtatcta tcagacatta atgacaaaac atagactctc 600
 taagccccct tgtttcatcc tttctacatg tttaatctgg aacatccaca taaactaata 660
 atacatggtc tcagtcagtg gtaaaacatg tagcatgcct tt 702

<210> 4021
 <211> 532
 <212> DNA

<213> Glycine max

<400> 4021

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cctcttaagt gcagatgtcc aaacctttga tgccatattc tgacttcac tttctttggag 180
gatagacatg tagaggagta gctgggtttct tgggggtgtcc ataggtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttaa cattgaatcc ttcacacac agctgactga tgctaataca gtttgagtc 360
agtcccttca ccagcagtag tttgttcaga ctaggaagtc catcatgaac tagctttccc 420
attccaatga tctttccttt agagccatct ccaaagtca cataactagt ggagcagggc 480
tcaatgttca gcaagaattc tttgactcct gtcagtgtggc tggaacaacc gc 532

<210> 4022

<211> 600

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4022

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gcccataagg ttgttcctcc tggacctgta ctagctagga ctgagctgac atcagctgaa 180
ccacaacctc ctatagtaga tccacttgct tctccgaaac ttgagacatt gtctcctccg 240
gcaccacctc tgataatcat ccccgatgac ttagctaata aagctgctgg ttctcctaata 300
tcaccatctt gcaacatgca acatagacga tgggttctgac ttttatgact ggatggactg 360
ttgaggaagt tgtggctcat actgacaaga atgttgatat ccttgatggt tttgtgttct 420
tctgttggtg ccttttagat tattattatt antaatttgg ttttcgtaca atatttcctt 480
tatttctaca tatactgcta gttntattta tgggtaaata gtttgctcat cctaaatcat 540
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<210> 4023

<211> 745

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4023

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aagatcattt tttaaagtcca acgccttaaa agtgatcaca attcaagtaa aaagaatcgc 120
ttgattcact cttaagaaaa aactacgtac ggctgatttc ctctccaaag gaagatacgt 180
acgagcaaaa gccccgcttt tgtccaccct caaaaaaaaa acaaataana ggttaaggta 240
atacaatttt caccattttt aaaaataagc tgctgtcctt tgtaaaaaac gggagaaggg 300
gtaatacctt cctcaaacgt taaaaaccac ccccccaact taaaattat ttttaacggg 360
gttcttttgg gtttcccacc gtttcccaa ataaaacgtt ggggggaccc cccccctctt 420
ttttttcttt ggaaaagacc accccggagg cttccccttt ttcccccca aaaaggggcg 480
ttgcgaccac aagagattta aaatgggctt gccaattttg ggggcccggc gaaataaaaa 540
aataaaccct ctttttttta attttaaaaa aataagtttt tttgggcaa aaaaaaagg 600
gggaaagggt tttttttttt aaaaaaaaa agttttctta tatactccaa aaagggcgcc 660
cccctttttt ttctaccgac cccctctttt atttttccac tctttaatga acccccccca 720
aaaattctct ccccttattt tttat 745

<210> 4024
<211> 539
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4024

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cgagtacttt ggatttggtta cgaccatgcc ctcttgattt ccagctggga aattggcgag 120
tggaggaacg ccttggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctaggc tttagagttt ttcttttgt taaggctttg tgtcttttgt 240
ttttgaattt ataatacaag gatctttctt catctgttcc tgggtctctac ccattcttat 300
tcatttgcatt gtttacttct ttttctaaaa cggcagatcc gatgacgagt cccccgagg 360
tactaatacc tgggacacgt ctatcgactt cgagcaagaa atgaatcaca cggaagatga 420

agganatgag gatgtgggac ttccccaga actagaaaga atggtcgccc atgaggacca 480
 agaaatgggg cctcatcatg aagaaacaag ctagttagact taagaaatgg cagtggaaa 539

<210> 4025
 <211> 530
 <212> DNA
 <213> Glycine max
 <400> 4025

agcttcaaga aaaggccaaa ctcttctcca aaatctgatt tcaggcttaa attggtggct 60
 tttttcgtgc tcatgcgctt agcgcaattt tgaaccgctt agcgtgaatt agtgaatttc 120
 ggcttagcgc gtgcttttct cgctcagcag atggactaaa gcggtgcgct tagaaagatg 180
 accctttgct cagtgaacat gcacaactta tccttcttcc agattcttct ttgcgctcaa 240
 ccgaggagtg ttgcactcag cgaatgactc gctaagaaga caggttggct tagcgagagg 300
 gtaaaaatca gcactataca aactcaccta attaacctga aattgagaga aaataattat 360
 taaacacaaa aaatggaagt actaagtatt tattaactat ctttaccxaa aagtaattac 420
 aatactacaa aattgccata aattggagga gtttgatata atttatacaa gttttataca 480
 caaaagttag tcgtattcat cgactaacag gtatctcttt gggaatatata 530

<210> 4026
 <211> 370
 <212> DNA
 <213> Glycine max
 <400> 4026

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 tggattgcgc ctcttttcac cttttctcct atatctttct ctacaactcc atggttgaaa 120
 atcactattg aaaggcctta ttaaagctca aagatctagc ctccatataa acatgtaaac 180
 caagctttca tcaagtggta tcagagcaca ataccttcac ctatgtgctc cttaaacttc 240
 cattaatttt cagctttacc ttctctcca ttgatgatgc ttcattattc tccatgtatc 300
 tcctcacatg tattgtgctg aatgttggtg acatgattat tttagaattc ccaactgatta 360
 aacttgctat 370

<210> 4027
 <211> 526
 <212> DNA
 <213> Glycine max

<400> 4027

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 ttcataattcc agaatgtcat taagggccct ccttggttca aatgatatca tgtgcatggt 120
 gatagatatg gttatggtgt gcctcttcag acatgcatat attcctgaat catataaggg 180
 agtagggaca atctcctaaa aatgaaccac cagccctatt atagcttgca atcagcaggc 240
 aataggtaga caaacctatt gtccttaagg attgaaacat tttactgatt agtaattaaa 300
 tttgattgtg attctcttat gggcatagac ttggtctact tagatttttag ctagtcctag 360
 ctagctccta ataatatatc ctaaccttcc attggaactt ggaagttgtc ttacaaaaaa 420
 ttgataattt gatatttaca tgaaactaga ctattagtat gtaattaaca aggagtagaa 480
 tatagattac aacctcaact atgttgctaa ataccaagtt tgtgta 526

<210> 4028
 <211> 591
 <212> DNA
 <213> Glycine max

<400> 4028

tgactcattt atttaaaca acctaattat aagcttgagt ttggcttttt tgaaaaaact 60
 aaagcatgag cttgagcttg aatgggttag ctcatTTaaa atttgattat tttttaactt 120
 gcaaaaaaat tattaatatca ttttttaact gtcaatttat tatttaataa aatattttta 180
 tactatgtaa taatctacaa ataaaatatg tgtaaacaat atgatatgat attgtagaat 240
 ctatgtaatt ttaattttta tattctattt ataaacgagc tatttatgag ttattaatgt 300
 caagcttgta aaacttaggc ttagcttgag tttgtttatt tcattaaaca aacgagtttg 360
 atggagcatt tagcaagttg aactcgagaa gttcacgaat aacttgactc atttacatct 420
 ctatctagaa atacttttga atttttaatt aagtgtcgca ttatatatag attgttaaca 480
 tagtggtaat aaatgacatt tgtttatagt gataactatt atttatggtg atgaaaattg 540
 aatgaaaaat aattttcatt tatagaaata agaaatatta ttttttatat t 591

<210> 4029
 <211> 501
 <212> DNA
 <213> Glycine max

<400> 4029

agcttctgac gagtgattat cgatcctctc atcaccttca ataatatctt tgactatata 60
 tataattgat atttttttcac aataaaccac taaaaataat ataacttata gcacataatc 120
 aaaacactac gatttgaaac atttttttcag caatttatatt tatcccgtga ttttaaaactg 180
 ctaccaatatt taaatatattt tggtcacctg ttactatagt ctttatattaa agaaccttgc 240
 tatttggtac gaaatatata cgctagaaag tagctaagac atacctgaac caatcacggt 300
 tgtatggggc cacttaaaat ctgatgatta atattttttt cttcaaaaat acaatttgta 360
 actagtatgt aatttttttcg tacaatatcc atcttttttcg ttattataaa tactcaagga 420
 caaatatggt acatcataaa tgaagcccac ctctgtcagt ataataaaaa attctaacac 480
 aagtgaataa gatcgaggac a 501

<210> 4030
 <211> 553
 <212> DNA
 <213> Glycine max

<400> 4030

tcaggattgt gtttagaaaa aaatatcccg tgaactccat ccacaatctg agttgagaaa 60
 agctcaatga aaatgaagga aagtagtagt tatggtttca gaaatcaata aatgatgaaa 120
 aggaaaaact agaacaaaact tacatatattt ttttaacactg aaaaatcaag tacaacgaca 180
 ggaatttcaa atgtcattgc tctgattaat aatggaggaa aaccctgcac ctcttgagca 240
 gaaccatata ggatgatatc agccattagt aacacactat tcacatcacc attcaagcca 300
 tagtgcctta tggaaccctg acgaagtccc atacgtgaag caactcccta catagacagc 360
 taataaatca gtaaacaatt caaagacaat atattcaagc tgagatatcg tactaaaga 420
 taagtcaaac ataataaaac agagcattgc cacaaatata ttctgagagt tcatcttcaa 480
 aatttctatt tctatttttt cagtatcaaa ttacattac aatgctcaat ttggttcat 540
 gtattctttt att 553

<210> 4031
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 4031

agcttgcata ctattgtttg ataaaacaaa aagaggatgg taagccttgg tatttcgata 60
 tcaaacgata catcaaggac aaagaatacc cgcctgaggc ctctaacaat gacaagagga 120
 cattacagag gttggcaacc agtttcctcc tgagtaggga tgtcctatat aaaagaaacc 180
 atgatatggg attgcttcgg tgtgggaatg caaatgaagc tgggcagata ctaacagaag 240
 tgcataaagg gtcatttggc acccatgcc aatggacatgc catggcccaa aagattatga 300
 gaagtggata t 311

<210> 4032
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4032

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 atgataaaga cgaggaccag acatcacact cacacgtcgt cttaacataa ccctccacga 120
 tagcgacaac gggccaaatc attaaccta atcgcttct atggagaact ttgacagaaa 180
 cctagcaagc aacagataaa catattgatt ggtcttctga agcaatgttg ttatgtcctt 240
 tccatatgac acaaacgatg tctttttctt tgtttttata aaataattaa tccaacatgt 300
 ataaacatta acaccaaagg ttacacatgg caacacgtgt aatcttatgt gtccagttga 360
 cgatcacgta ggtagataac gatttttgaac taacagcaaa gacctaagac aaaaattttc 420
 aaatattagg gacccaatct aaaagataaa tttatcagag accaaatgta aaaaacagat 480
 gtttatcaag aatcaaaaac atattttaa cttcttttcc tcaaagntaa atttgatgag 540

<210> 4033
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 4033

agctttatat atgaaattaa ggacttcac atcgaccaac aactttatac tgaaataata 60
tctcacttaa cattgtaata tccaagacat aggaattgtt ccaagtaaaa ggacatgaga 120
attgtacctg tgtgtagata taaacttggg gaatatttag gacaatcatt tatgtcatgt 180
tctctaacat aagctgttaa cttgaataca tgggtgaatat ctttgaaatt tggccccctg 240
ctgagggtta tacctagcag cctatgtagt actttttctc cat 283

<210> 4034
<211> 470
<212> DNA
<213> Glycine max

<400> 4034

taccaataaa cttgttcttc ttaacaaaac cttttatatc ttcacagagt agtgctaaat 60
gggtacaaaa caaaccttt tatactttca cacagagtag tgctaaatgg tacgaaagac 120
ttcagaaaaat tttaacgaaa cagatgtttt aatataattg gcaaattgtt ttcaatttaa 180
tagataaaaa ggatttgata attaacgaaa atcatagggtg atcacacaat atatgcagta 240
ttcgtgcaat atgaattggg aagtaattcc cttttattaa tttagcatgt gaattggcat 300
gaaacctgta accagaactt cccaccatga ccaaccaatc taagatgctg ttcttctata 360
tagactcaag gaagaaaaaa gatagttaac tcgtgcaatg cattaataac gaaaattgtc 420
attagtaaca attttttttg tcaactaatgc attaatcttct tgtatgatcg 470

<210> 4035
<211> 583
<212> DNA
<213> Glycine max

<400> 4035

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cctatagctt gaatagcttc tttcccttta tcaaactctt tctcaaagta ttttaaaatt 120
tagtaattta gtttttagta gacattttca tgttagaaga tacagcaaatt attttaagtg 180
aaagagagtg aaagaatata tgaactaatt gtagtccttt gttctctaga cagaattaca 240
atttactgag taatagcctg agtcacgtag cttgtgttta gatcctttat atgattgaat 300
ttaaagctaa gcttgagctt gggttttagta aaacaaacaa gtttgattat atttaacggg 360

ttgagcttga atagttgagg aatagctcaa cccatttacg ttcttttagga taccattctc 420
 gtggttcaac ttacaagact atcaactgta tatgcaaaca ataattttac agattcttcc 480
 aggattatth aaggaaatta aggagcagaa cagatctgtg gcacattctt catataaata 540
 ttatcaatgc cttgtccaaa ccaaattgaa attgatgggtt tac 583

<210> 4036
 <211> 617
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4036

tcacagcaaa tgatagaatg tctatagttt tatcatttga caatttattg ttattatatg 60
 tcttatectt catatatata gactcttttt ttcatcttt ttcaactgtg aattttttaca 120
 taattcataa attttatttg ataccttgca tagcattgca tttagcaaata acaatttaac 180
 atgcttggtt tataagtatt gacacaaaaa aggcttatga aaataccttg tattgcatgt 240
 tgctagggct tattaataat atcaaataat ttacatgtg tctgtgaaat cagacttatt 300
 aatgatgcga taaattatgt aactatcatg tctctcgttg atgttgctaa aaaaattggt 360
 tatgaagtat agggattaaa agtgcatttt gcaaaaagtt taaagatcga gaacataatt 420
 aaccatttaa attattatca ataaaataac cttaaatnta aaatacaaac ataggtaacat 480
 gtaatntata ttatcaatta ttgataaaaa aaaatataat aatgtttatg tgaacaaaat 540
 atttttttga ccaaaaaata aacgcatggt ttttatattc aaaatcattt tacagttaaa 600
 tatttaattgg ttataaa 617

<210> 4037
 <211> 988
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4037

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 cgaacgagct ttttcnnncc ccggaggggt ggacctggaa gaccccggtt tttgaaaacc 120
 ccccgaggca gccaatgca aaaaaaggga gggagaaact ttttttaaac cccaataagc 180

cgttcggaga aataaaaagac tccggtctctt ttcttttctg ggcgaccaaa aaaaagttct 600
ctctccctct ctgggtttct caatttcttt cgcaacacag taaaaaatct tttaaaaaat 660
ctcactcact tttccgcgaa ataatatgat aagcctaggt tgtgttecta catattcaca 720
acttttttct ttgccaaaaa agatgttccc cactcttttc cctatagcct ttttagcgag 780
aaaaacactt cacttctaca caggtagtag tagcttttcg acgcctatct ctgcn 835

<210> 4039
<211> 435
<212> DNA
<213> Glycine max

<400> 4039

agcttgttta atctttccat atgagtatcc tgacctatga aatcaaaagt tttccttaat 60
attataaacc aaagaaaagg tatacaatta tcaaataatt tggcaaataa atacaaacag 120
tttcaggaca aagatttgct ctaaataatt gctaaaagat aggaaactta ctacattttg 180
atgagttgta tcatattcta cgattgttta atatgaagat gtaaaatgaa agtgcctgaa 240
ttgaaacaaa gtgacaaatc tcaaataatgt attttccatc ttctgagtat aactccatat 300
atagctagta tgcttatcag aattgtccca tccagctccc attgtcttac caaacaagtc 360
tgcataaacc cacttcatta cgaaccattt cttaccttta atcacaagtc atccaacatt 420
gagactgcta gtgat 435

<210> 4040
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4040

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tgcaagaaaa aggggtctatt aaagatgcac aatgggtgtg ggatcaaata attgtgcctg 120
cagtataaac ccattgaaga agaacatgct tgcattttga tgatgacaat tcacaatata 180
ttttgaagag accaacaatg acatcttatc tggcagtcaa agactgtaaa agatggcatt 240
ccatcggttt taatggcatc ccagattttg gatcttgtgt catttagttt aatttgactc 300

taacattaac tagtttggtta tttaacctgc tatgtttatt aactattaag aaatacatta 360
gagccattac atgcaatcac tctttcataa aaaaaaatcc actttgttct tttgctcatc 420
cctattgggg cataataaat tcccaaatnt gtaagggtttt tggattatca gatttaaaaa 480
atgcttaacc tgactattta agaataaaac tgtga 515

<210> 4041
<211> 467
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4041

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agagatgcac agtcctatta tcgtccagga agtccataag ctgaatggaa gactagcatc 120
cttgtgagac taaacctgog aacaaccttt cttagccttc aagaagacca ttgtcacatt 180
gccagtccta agtcaacctta ggccaggagt acccttactc ctatatctct cagtagttga 240
tgaagcagtt agcccatccc ttttacaaga ggaagggaag caccagctcc ctatctactt 300
caccagcagc atactctatg atgccgagat gcgctaccaa atgatagaaa aggtggcact 360
aacactcatt acctcagccc agtgtctcag accctacctt taaagtcatt gagtggtagt 420
caagacgcac tataccctat caaacagggt ntgccaaagc ctaaact 467

<210> 4042
<211> 377
<212> DNA
<213> Glycine max
<400> 4042

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tactcatttt tgggtgtgtga gtttctggag aatggcgacg tcaaaaaaat ttttaaagat 120
gatgaacaaa caattgcggt tgattggaat aaaagggtgg atgttggtta aggtgtagca 180
aatgctttat gctatatgca tcatgattgc tcacctcaa tcgttcatcg tgatatatca 240
agcaagaatg ttcttttgga ttccgattat gtagctcatg tcttagactt cggaacagcc 300
aaatttttta atccagattc atccaattgg acctcctttg cagaaccttt gatatgctgc 360
tcccgttaa tttcctt 377

<210> 4043
 <211> 519
 <212> DNA
 <213> Glycine max

<400> 4043

agcttgtctt gtgcagaatt agggcacaca atttttgtac agctttttaca cacttttatag 60
 aacttccagg gcacaaaatt ccacagcaac catagtgcct atttagggaa tagagcccta 120
 gaagcagcaa agaggagcag cttgtgcatt gaagcctagg ttttgtcatt tgagagagat 180
 tattgagtag aaagtgagtg tgagatgctg agaaaaggag gaggaggaat ccccttctt 240
 gtgtaacgaa ctatcattct ctgcttttaa tctcatttat tgttaggggt tctttgtaat 300
 ggctggctaa acaccctagt tggggatttc taatgaacaa ctgatgtaaa tacataatat 360
 ctaattcatt gtgttttctg tgttcaatgc atcattcaat gcttgatggt tggatgcttt 420
 tggctctgtca cccatttgca tgcatagtta agtgacttta gcattgggaa atgtattggt 480
 gccttaaaac ttgattgaaa aagattgaaa cttaatctt 519

<210> 4044
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4044

atgccttttag ggcttgtacc tcatcacttt ctccgaagc tttaacctca ttgtctctca 60
 cagactttta atctggcagc caatccaatc cttgtgtgcg gactctcagc cacttatgat 120
 agccgccgat gctccatta ctgtttcccc taagctctct atcctttctt cacaccgcat 180
 cacatgcctt gtgaactcct tagagtaccc tcgcattggg gtcactgaaa ccccggtgta 240
 tgaaaggcgt gatgctttcg tctgatggca ctctctcat ggggtagcca agctgtctta 300
 tggcgaggac gggattataa tgaatacaac cccttgttcc atcaaggga catttgga 360
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<210> 4045
 <211> 987
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4045

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tttcgttaac tatcttacgt acatataata aaattctaca cccnnnnncna aagagagatg  120
ttgttgtagt ctctgtcccc gggcatcctt ttgatncgac ctgcgagcat gcaagcntga  180
aaagcatgaa gcccgtaaatt aacttgtttg tttttataat atatacaaat ggcgtaacaa  240
agttttggat aagatgaacg catctcgtat atgatgagat cttagtctta gggcattgtg  300
aagagctata aattttaatt cttcttatcc ttattccatg ccttggacca atgattagct  360
catgaattag tatgaaagat tattctttcc ctaaagcttc ttacaaaaac ctcacccctt  420
actttgaaac atggtcttgc aacaattgaa ttgaatccaa ttgccctcat ttggttaatc  480
gactgtccca agtcatatct catgaataga ggaaggttgc tatagcttga aagtaattcg  540
atatacctca ctttgataaa tcgaataccc aacctccaga aaacacaaga aaaggctctt  600
tggactgaat ctaaaatcga ttaccatata tgataatcct gtttcccagc cagcatagaa  660
cgaactaata ttttgatatt gaaatgaatt aatactcacc ccttgtgaaa tcgatgaatc  720
aggggtctgga atatcaaaac aaatggaatt tcgacaaata aattggatac ccattgtata  780
atcgataaac ttctttttta ctggtaaaac tactacatcc ccccatgcgt ttaaatttaa  840
aaacaacact gaatgtgccc aaaatttacc gacacacatt ttcatagaaa tttcttaaaa  900
acgaatagtc atctgcatta tgttggtaga attcgaactt gacacaataa tcgctttaat  960
tgggagacgc ggtgatttca gggaccc                                     987
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<210> 4046
 <211> 550
 <212> DNA
 <213> Glycine max

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<400>        4046

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aggatgaagt agggaaagtt ttggtcacia atcaagatat aaaaaagaga tctaagagtt  120
attttaatat ttttataagc attttgatga tggactggga ttgactttgt aatagggag  180
gactattaat gtaggaggac aaacagaatt tggettacca ccgtagaatt cagattggag  240
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tggtaaaata ggtccttaag aggatgatgg atggatagtg gtgaaatgat tgggtctagat 300
 ggtattccta ttgaggtttg gaagtgtgta cgaatctcga gttaagaata ttttaagaat 360
 cttggataag actactattg aggtttggaa gtgtgtagga atctcgagtt aagaatattt 420
 taagaatctt ggataagact actattgttc ttgatgtcga ttttaataat ataaataata 480
 gagtatttta tactaaggaa tattcttcat aatttgtttc cttatttgat caagagttca 540
 gtactaatat 550

<210> 4047
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 4047

agcttatgac cattcgaatt tctcgagagt ttccgttggt caatttcgag cgtgtagatg 60
 agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120
 gcttccgttg ttcaatttcg agcgtctcga tatattatga ccccgaaatcg gacatctgtg 180
 tgaaaacgta tgaccattcg attttctcga gagcttccgt tgatcaattt cgagcgtcta 240
 gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaatttctc 300
 gagagcttcc gttgttcaat ttcgagcgtc tcgatataatt atgttccoga atcgggcatc 360
 cgagtgaaaa gttatgacca ttogaatttc tcgagagctt ccgctgttca atttcgagcg 420
 tctcgatata ttatggcccc gaatcggaca tccgtgtgaa aacttatgac cattcgaatt 480
 tctcgagagc ttccgttggt caatttcgag cgtgtagatg agttatgtcc tccaatggac 540
 attgggtgaa aagtt 555

<210> 4048
 <211> 612
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4048

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 caaaggaaga aagaaggttg tcttcgaacc cgagattgg gtttgggtgc acatgagaaa 120
 agaaaggttt ccggaacaga ggaaatcaaa gttcaacaa tggggagatg gaccatttca 180

agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccgggtg agtataatgt 240
tagttccacc ttcaatgtct ttgatttacc tctttttgat gcagatgtag aatccgattt 300
gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360
ggatccactt gaaggacttg gaggacctat gacaagggct agagcaagga aagccaagga 420
agctcttcaa caagtgctgt ccatactatt tgaatacaag cccaagtttc aaggagaaaa 480
gtccaagggt gtgagttgta tcatggccca natggangan gactaaatga caccactttg 540
tctcaatttt tagagtgttt agtttgtcta aataatggcc caatccttgt aaagttgctg 600
acaaaaata tg 612

<210> 4049
<211> 530
<212> DNA
<213> Glycine max

<400> 4049
agcttagggg atgtcatacc ctaatttcgt ccggggacct ttgcttgatg acatgcgacc 60
tttgtttggg ccttgtaagg tgcttggcac ccatcattag gcaatttgtg aaattccggg 120
acatgccgaa aaacaaaaga aaatattgat gcacaatccg taaaggttcc gtgacacacc 180
ggaaatcaaa tggaagcatc gttgcataat ttagtgaggt tccgtaacat tccgtaagtc 240
aaaaagggga tgattctgta atccgcaagg ttccgtaaac attacggaaa gaaaacaagt 300
atcgttacga aattcgtaag tttccgtaac tttacgaaaa aagaatcacc aaaaaaagggt 360
agaggggggtg tacttagtaa aaatgggggt gcaaataaca accaggccca cttgggccct 420
ccagaagatt cctccagaag gcttgtgctt ctggaggaag caaccctgct cgctggggcg 480
agctgagctc gcctgggcga gctggggcgc aaacatctcc cttattttgc 530

<210> 4050
<211> 362
<212> DNA
<213> Glycine max

<400> 4050
tgcttggtga gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
gatttccacc atggagaagc agcgaagac aaaagaaaag aggggagagg aggcgccatc 120

cactaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180
gcttgtacag aagcttcaat ggatgaaaag aaagaaggag agaaagatag agggggggagg 240
cacaaaattg aatgaagaaa acaagggaga gaagttgaac tttgagttgt gtctcacaag 300
actctcaatt catcaaagat acaacaagtg ttacacatgc ttctatttat agactaggta 360
gc 362

<210> 4051
<211> 730
<212> DNA
<213> Glycine max

<400> 4051

agcttgaaaa acaaagtga gaaagtttta tctgcattaa ttgggtacat agaacaagcc 60
acaagatact catttgagat ctgagacaga aaaccagaac tttctatgtc aaatcacatg 120
gctcttggtg ttcttcatta tggcttgtct ttttttggtg ccctttgggtt caaagcacat 180
ggcagtgggt tgaactagca agcgtaggac cattactaat aagttatcaa gcaatggacc 240
ggataggatt attagaactt tcgacgagct cagagaatca aattctcatt attaagtga 300
aaagacaagg cattattaaa tgtatagaca aagtactcga ggggtgtacaa gataatttgg 360
ccattatggt agatgaaaac aaatggacca cataaaaact agcattttca gggtttctat 420
ttaaaaaatt cccatcttat tcaatggacc ccgcggcatg tagtaatacg taacacggcc 480
aaagtatcat caggtggtaa tttcttttta atttagtatt ttggggcaaa ttttaaatta 540
atattcctat gggaataagg tgtagtagat gttaaatatt aaaattatca aactattatg 600
gaattttatt ttacttttta cgttggaaaa cgaaaaaat tttatgaatt ttttaaataa 660
ggacttaaag gtataaattt ttttttttac gaattaaagg cataaaacat attttttttt 720
taaaaaaaat 730

<210> 4052
<211> 554
<212> DNA
<213> Glycine max

<400> 4052

tgctcgtctt gctgatattt atcatgcaga cttttctgat gatgaccgag gaacaattag 60

ggatcaactt gaaacttatg tgcttcaagt gagaagaaat gcttcttttt ccacttgtga 120
 agatgttcaa agtttggtta tgaagatggt tcaaactgag aaacatttgg tatttccatt 180
 ggtttataaa cttattgagc tagctttgat attgccggtg tcgacagcat ccgttgaaag 240
 agctttttca gcaatgaaga ttatcaagtc taaattgctc aataagatca acgatgtgtg 300
 gttcaatgac ttgatggtat gttacaccga gcgggagata ttcaagtcac ttgatgatat 360
 tgatattatt cgaacattta ccgcaaagaa gtctcggaaa ggacacttgc ctcgtaattt 420
 tatttaaccc gctattgtaa gaatatgctt atctctttta ttttaaacta tatttttggg 480
 gacaaaatga cgagtctctt ttattttgat tgattactat ttacatatta tatacaaggt 540
 gaatttgcta tctt 554

<210> 4053
 <211> 715
 <212> DNA
 <213> Glycine max

<400> 4053
 agcttgtaaa gaaaaatgat ggcattgactt ttatccaatc ttattatggt gaaaagctat 60
 tgaagaagtt taattatttt gatgcgaaac atgctcttac tccttatgac tcatccatca 120
 agttaaagaa aaatttgagt aaatgaattt ctttacataa atattctcaa agtatcggtt 180
 ctttggttga ttgacaaaac ttctctatgc ctgtctgata ttgcacatgc agttggtaga 240
 ttggaaagta attgagggat ttagtgatat aaaattgaag ttctgatttt gatgaaataa 300
 aaatgagaag tggttatgtc tttgcttttag ctagtgtgac agtatcatga aaatctacta 360
 gacaagttat tatttcacat gaaagcaaaa attattgctt taaatactgc tactagttag 420
 gttgaatttc ttaaaaatgt attatgtgat ttgtcattgt taaataagcg tatacctcca 480
 attccaatgc attgtgatag tcaaattgct atatctaaag tgacaagaaa aattttaatg 540
 aaaaaagaag acacttaaga gtgagacata agtctttaag aaattggatt tctcatgatg 600
 tcatttcttt tgactttggc aggtcaaaaa ataattattac agatccgctt acacaaaggt 660
 tgacctgtca acaagtattt gagtcttcga gggaaatgaa ataaaaccct ttatt 715

<210> 4054
 <211> 615

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4054

ttttcaaagt caactttgaa aaccatgcag gggttatfff tgaatttagc ttcagctaag 60
acctcattaa ctatcattac acccgggagg atatgtctgc ctttgaaaaa aacaatttgt 120
ctttaatcaa ttaaatagaag cagcacaaga gccagcctat tagccagact ttggacatta 180
ttttgtagac acaccctatg agagagatgg gtctatagtc attaagagat tgggggctat 240
tggtttttggg gatgaggggt atgaaggatg cactacttcc tttggggaat ctgccattaa 300
tgaataattc atcaaagaat ctgataaaat taggttttag agtttcccaa aactgtttga 360
tgaaattgaa attcaaacca tccgagccaa gacttttata tcccccgcaa gcccaaactg 420
cagacttgat ttccagctcg gtgaatctat caacaaggct ttccttctgc ctttgatcaa 480
gggaagagaa ctagatccct tcaagggttg tctgcaagga ttctactttg agaatctttc 540
tttanagtgc tgaagaactg caatcttgac actgttaggg tcantggatc catcctccat 600
caatacacag acctt 615

<210> 4055
<211> 917
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4055

accacaccat acgtctgaag tacttatcca acttctttca ccacatggct ttacctctaa 60
acttacaaat aacctctttc ntncacacag agagggttg acttctctgc ccgagcagct 120
taatatagaa ctaccggctg caagctcgtc tcacctgcca accacaaata acctcgcat 180
tgtatatcct actgactccc atcataatgc gacgtgtatc ctatccaaaa cagaagctcg 240
taggttactt taatgacatt aactctctac taggagggca cacagagcac aagcaataaa 300
ctagggcagc taataggaat acggaagagc ccctatgatg taaacaacac tcaactgcctc 360
catgaaggga gtctgacgca acgaagaatt ctacacgtgc ccgggttaaaa acaataacttg 420
taggtcatat caatcacaaa tgacttacta ccggaagtac gagtgagtct aatactatff 480
acgaaactff tcataaatga acatgaagca ctgggtcaga ttcacaccac aataccttat 540

tccttttatag ctcacgctaa cacctggatt ctaccgcgaa ccggcggaatg aaaatgcca 600
 tgccatcggtt acaaacaccg tacatgggtct cgatcatcat attgttgcaa acaacaacc 660
 cctcaaaatc gcaaaacatt aaaggagaa aataaccgt attcgtgtat gtaactgata 720
 ctaaaaagat tctccaagta gatcaccatt tatagagcct tctgctgacc cctccacat 780
 tctcgaacgt catctgaaga gtctatacac cagaccgtat gacattattc gactacgaga 840
 aatcataaaa tcatcaggaa tagagacaac cggtagttaa gaagtggggt cctacaaaca 900
 cctgtgctcc gtcctta 917

<210> 4056
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4056

tccgttttca atttcgaccg tctcgataaa ttaccggact cattcggaca tccgcgtata 60
 aagctattgt catttcaatc tgctcagagc ttctagtctt aattttgagc gtctcgatat 120
 attaccgat tcaatctgac atccgagtaa aaagctattg gtccttgaat ttgatacgag 180
 cttccatttt caattgggat catctctcga tatagtagga cgctctgttg cgcacccgac 240
 taaaaagata ttgccgttag acatgggtcta agaaatcca tcttcatttg ggggcgtgtc 300
 catatatcac gggactgatc caaacatccg tgtatagtgt ttttggcttt ccaattttct 360
 cagatctcct attctaagtt gagcgcgtct ccagatgttt cccgattctt tcgcaactatc 420
 gaataaaaa 429

<210> 4057
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 4057

agcttatgca cggaatatgt aattatgaaa ttgagatgcc tgaagaaaaa ccatttccta 60
 gttaaccatg cattaagtac catgtacaat tattttgttt ttaagtgaaa cgggtttatg 120
 atcccaacat ggttggctcg tgggtgctaa cacatgatac taagaatgta gtgtgaagat 180
 tcacgcttcc cccttttttg tttttgatct gcagaggaaa actcgtggat gagcaaacat 240

gaaaacctat gggatgcttt tgaggatata aaaaagttag aagatcacat atgcatgctg 300
atgccatgac tcatgcgtta tgtgaagctg gaacatcatt accgagaaat ggaagacaca 360
tccattttta tgt 373

<210> 4058
<211> 310
<212> DNA
<213> Glycine max

<400> 4058

ttttggagta gaaacatggg accaactcat tttatttcaa aaaggaagtc gtatctagtc 60
aaggtcttag agaccataca aggttcctac cgatttctaa ttatgtgggc cattaagtct 120
atcatatgct gacaatagcc gagaagtcg tggatctctt cgggggcgga gtaagtgtct 180
gccatgcct tggccttggc taacaatcgg ggaagttctt gactcccaat cctggaaaca 240
gctaaccgat ccattccacat agttgccagc aggtgtaaatt attatatcac cctttctcta 300
gcctattttt 310

<210> 4059
<211> 598
<212> DNA
<213> Glycine max

<400> 4059

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60
cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120
aagccgaggc gcttctgaaa cgttttcgtt acgtttccgt gaggaatttc gcgaagggtt 180
cgaccgttct tcgacgttct tcattcgttc ttcattcctt tcgatcttc aacgggtaaa 240
tacctcgaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300
gtgtattttt attctcgttt cattcacttt ttataccccc ctttgacgtg cttaagccat 360
tttattttaag tcattttctg cttaacctaa aaataatata aatttccacc gatcggttga 420
attgtattat ccggttaactt cggttaaaat gaattccgac cggtcggctg tgccgtaacc 480
acgttggaat tcaaaaaaga ggtacaataa tattctcata ataaaaaag acgtctttta 540
ataaaataaa gcggaaaatc attcggccgt tttcttttgg gatttctcat tcttaatt 598

<210> 4060
 <211> 630
 <212> DNA
 <213> Glycine max

<400> 4060

tgccaccag ctcgcccagg cgagctcagc tagcccaagc gagcagggtt gcttctcca 60
 gaagtaacag ccttctggaa ggcccaagtg ggcctgggtg ctatttgac cccattttt 120
 actaagtaca cccattgcc ttttttttg tgattctttt ttcgtaaagt tacggaaact 180
 tatgaatttc gtaacgatac ttgttttctt tccgtaatgt tacggaacct tgcggttac 240
 ataatcatcc cttttttgac ttacggaatg ttacggaacc tctaataca tccccctttt 300
 tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360
 ggcatgtccc ggaatttcac aaattgccta atgatgggtg ccaagcacct cacaaggacc 420
 aaacaaaagt tgcattgcat caagcaaagg tccccggacg aaactaagggt atgacagcgt 480
 gtaaactctg acattgacaa aaactgccac acatggggca attttgaaag ctgttgtaga 540
 tatctctaata gactcatcac gattttcaag tttgtaccat tattgtaaac cacagttaca 600
 atgttaaatg aaatggataa agttgatatc 630

<210> 4061
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 4061

tgcattgctt ctcacgttat atagggagtc gacagttcta tcttttcagc cttcttacca 60
 tgtaataacg gatcattttt taagggtccat tcgggtcata agtgatcact ttttaagtta 120
 acagaacccc cagattcatc tcttaagatt gaactacgta ggtctgattt cctctgcaaa 180
 ggaggactct tacgatacat gagccccgct tttgtcgacc tccaaaataa gaataaatcc 240
 aagggtactgc cccacaattt ggacaatatc ttgctttgaa gctgctgttc tttgaaacaa 300
 agatgagatg ctctaatacc ttactcagtc gaaagtacaa ctccctacct gctaatttt 359

<210> 4062
 <211> 558

<212> DNA
<213> Glycine max

<400> 4062

ttcatcctaa gcctaaactg tattatttga tttgatcata ggaaaagggg gaaaaagata 60
caagatataa acatgaatac aaataagaaa ttgtaaacta cattacttga attcctatta 120
tatacaacca gcataccgag ttgaatttgg ataatttcct cccaccacca acttcaacct 180
caaggggaga attacaagaa caaatgggtt agtgtcaaaa aagatagcac acagacaaat 240
taaaaaagat agcctgaaca gctactggag ttctatgaat atgtcttggc acttaagatg 300
acctgccata cttgttaact gaattcatat gattcatcta catctgcaag ttgtttggtc 360
ttgaaaattg attatgcatg gctgaggtta caacaagggtt attatcacia ccaacaaatt 420
gctgactaaa tgccggagaa acagtatcag gcagaatagg tagctcagag ttaccaattg 480
tttgggtatc agacctatta cggataaaac aaactcttgg ctaaaagtat ctatttgagt 540
gttaacattt tgattaac 558

<210> 4063
<211> 1288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4063

tcactcgcgc actctgcaan ttcgtaana ctcgtaaact cttacactct gtcactctgt 60
tgcgtctgtt attganacat gaaacatgcc actttncagt atctcttncc aannncccc 120
gaggagagaa ttgttggaac tcgtattacg acccccatatc ttttcttata gagaacatct 180
caagccgtgc gaagtcctgg taatanacac acatgtcatg tgaacaagca tgctaattcta 240
tctgcttaat caagcgcta ataacctcac tcacggcacg tttagttggt ctaccacgt 300
aaatactatg cgtgctcagt cgctgaagaa atcctctatc gcttcaaagc cataactaag 360
ggatttgctt agtacacacg gacagaacct cgttatcact agatggatgc cccacaccgg 420
aattagtgga acctatcgc tgcactaatt ggacgaagaa atcccttggt atggccgcat 480
tgtatggata ttagcaccac tggccggtag gactcgaaaa atagcgaaat gtaacttttc 540
ctgaccgaat tcgcgacctc aatttcagct ccaccgctat cgtagacca aaacgctagg 600

<210> 4065
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 4065

agcttatacct gccatthtat tcattcacgc tattctgcat cattcttccct ttgaccatgt 60
 tccttcctga agccgagctc ccagcctggg ttgtttgtta cattcctgga atcatgtccc 120
 tcctaagtgt tctcccagct ccacgggtcat ttccatttat agttccttac cttctatttg 180
 agaacactat gtcggtaact aaatttaatg ccatgatata tggattatta cgctttggaa 240
 gttcttacga gtgggtggtt acaaaaaagt tgggaaggct atcagagaca gatttggttg 300
 cctttgagaa agaagctgaa cctctaatagc gatctactag tcttcataga tcctcctcag 360
 attcaggcat tgaggaacta agcaaactag aattgtcaaa gaaaactggg aagaccaata 420
 aaaatcgtct tttcaagaaa gaactttatc tcgcattaat ttt 463

<210> 4066
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 4066

tcatgactag ggcttccaac aggatggcct ttaaaatttc aattgattct tttgcgtatg 60
 cccttggggc agcgctgcc aatgttattg caatcttttt ctccgggttt tttgctggtt 120
 ataaagtctc ttctcttata accatgggtg gtgcttggtg acacacaaaa gaaagaaaat 180
 taggatcaat ctatgtttta ttttaattctc attgtacttt gattaattac ctaattaaac 240
 caggattatg catcctcgag gatggctatt ttacctaagc tagctaagtt gttctggcct 300
 tggccctcct tgtggatcta ataattttta gcttgaatat tgtacttacc aaaatccgaa 360
 gctagcacac ataaggtgta acgtggctaa ggtggacttc tgaacttcgc acatcgacta 420
 agagtgcact ttgttaggag gacaaaaggg ggacctgcaa aattaaggac ttcaacgctc 480
 aagtaaattt atgagttatg aaaataatag agtatgagta cacgagtatg aaaatgggtg 540
 tgcattgtgtg ttagaaatgt gttaagggtt caaaggaact tgttac 586

<210> 4067

<211> 630
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4067

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 atgcagggaa gaatttctcc aagaacaccc tcttaaggTc atcctagctg gtaatggacc 120
 tgggagcaag gtagtacaac caatcttttg tcaTccctc cagagaatga ggaaaagcct 180
 ttagaaagat atgatcttcc tggacatcag ggggcttcat ggtggaacag acaatatgga 240
 actctttaag attcttatga ggatcttcac ttgcaagacc atgaaacttg ggcagcaaat 300
 gtattagtcc agtcttgaga acatatggaa catcgTcatc aggatattga atgcacaagc 360
 tttcataagt gaagtcagct gcaaccatct ccctaagagt cctctcacga ggtggagatt 420
 gagccatgtt cttagtatga aaattagcag ccgaatgctc aaaatcagaa tgttcagacc 480
 aacaacagaa tgctcaaaat gcacagaatg attaggatgc acagaatgat aaggatgccc 540
 agaatgatca ngatgcacac tatgccttac taatatatga aaggTtctat cttattcagg 600
 gatcaagggg tgtaaatac ctggattggc 630

<210> 4068
 <211> 501
 <212> DNA
 <213> Glycine max
 <400> 4068

acactatcta gatctcaagc ttacaacata aactaccctc attctttgat tcatttaata 60
 taggggaact tattccaagg attaccaaTt gaggaccct atgaacattt ggcaacattc 120
 attgaaatct gtaacactgt aaagattgca ggtgtgccat atgaagccat tatactcaat 180
 ctatattcaà tttccttagt aggagaagcc aaaaggtggc tacactcatt taaggggtgac 240
 aatctgaaaa cctgtgaaga agttgttgaa aagtttctga agaaatattt cctatagtca 300
 aagactgtga aagggaaagc tacaatctct tcatttcacT agttgcctga cgagtccttg 360
 agttaagcgt tggaaaggTt tacaggTcta ttgagaaaga ctcccaccca tgggttcttt 420
 gagccaatta agttgaatat gtttatggac tggctgagac cacagaccaa gcaactacta 480
 tatgcttcat aagggggaaa a 501

<210> 4069
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 4069

agcttgtaat tgattaaacc gatacgagag atttctctgt aagctagaaa catttatgta 60
 atcgattacg atcaatctgt aatcaattaa aatagaaagt cttaacttca aaaaaaatct 120
 tctaacttta taaactattc ctcttactcc tacaagatga tgcattgatgc acatatgaaa 180
 taatagagac taagatggaa cacacaatat aacctcaat acaaatgcc a ctcaagagag 240
 ttgggcatgt aaaagacaaa aaattttcaa gctcttcttc aagattcaag gctaggtctt 300
 tatgattctc cccctatcta taacaatctc ccccttttgg ctttgatgac gccaaacttg 360
 aattttccat ttgagtacat ttggagagtc ttaagagtaa agacttttct tagtcaaacc 420
 taaaactttc ttaacattaa gagaagtacc aattcatatc atcatcatta agtagagctt 480
 tatatgaatg tatgatgcc tggggtacaa a 511

<210> 4070
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 4070

tatcgttatg gctgcctcc ggacttcacc ccccggtcca ccccggaaga tttaagccaa 60
 gccctactt tcgaggggca gctcccacct tatgaagact atcccgggca agacgatggg 120
 gaaggagata cccatcttgg cccctgctc cacctcaaag atccatcccc gcatgaacta 180
 cccagccga acatagtccg ccatatcccc gctcaccca caccgtaaa agaatttggt 240
 ccttcgtgg aagataaggg aaagattgag gcgcttgaag agaggttaag agcagtccag 300
 ggcttggtga attaccatt ctgggatttg gcggtttat gtctcgtgcc caagatcgtc 360
 atccctccca aattcaaagt accggacttt gataagtaca aaggtagac atgtccgaag 420
 gggcatcttt ggatgtaatg c 441

<210> 4071
 <211> 586

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4071

agcttatcag gtaggcccaa ctgctattac taatataaga ggcccatgat ttaggaagag 60
ggcaagaata cagagggcaa gaaagatcgt ttttagagaa gaaaaatgag tttggcggcg 120
tctaagctca aggactgcat tttgtttttc tcttcatcaa atcctttgat tcccatagct 180
atgagtaact aattccatgt ctgttgggtt tgggtgaatt agactacctt catctaattc 240
ctgctttttt tattcaataa agcaattggt attgttcttc ttttgtgcct attgcctttg 300
attgatcacc taattacttg attcattgtg ttcaattgta tttggaaaaa tctatttgaa 360
ctgtgaattg aagaagacaa tgaataattt ttatgcctag ggatagtgtg acaaggattg 420
ttcatcgta aaacccttat ccttaatgca agtcgtttgg ctacactttt caaggattgg 480
tattgaagtc aaaggactta agttctctcg cctaaagaat taaagttagg ataaattgtg 540
tattggtnat aacgtaatct caattgaata aagattattg gtaatg 586

<210> 4072
<211> 634
<212> DNA
<213> Glycine max

<400> 4072

tgaaggtaaa ctagatgcct tggttaacct ggtaacccaa ctggccatga ataaaaaatc 60
tgcacttggt gccagactct gtggtttatg ctccatgct gaccaccaca cagacctttg 120
cccttctatg caacaatcta aagtaattga acagcctgaa gcttatgctg caaacatcta 180
caatagacct cctcaacctc agtagcaaaa tcagccacaa cagaacaatt atgacctctc 240
cagcaacaag tgcaatcctg ggtggaggaa tcatcccaac cttagatggg cgagtccttc 300
acaacaacat caacaataag attagcctta ttttcaaaat gctgctggcc caagcagacc 360
atacgttcct ccaccaatcc ggcagcaaca acaacaacag cccagaaac aacaacaat 420
tgaggctcct ccgcaacctt cccttgaaga acttgtagg caaatgacta tgcaaacat 480
ccagtttcaa caagagacca gagcctccat tcagagctta actaatcaga tgggacaatt 540
ggctacacag ttaaatcaac aacaatccca gaattctgac agattacctt cttaatctgt 600

ccagactccc aaaaatgtga gtgccattac attg

634

<210> 4073
<211> 540
<212> DNA
<213> Glycine max

<400> 4073

agcttgggag ttctgagtcc atgaggggtac tcagaagcta aagggaatca ctaatagggt 60
ctatttcgcg tgaatctttc gtctttgatt tttttttttt cttttcaatg gggtagagag 120
ggttttctct ctcaaaatcc aattttatct cttcacaaga gataaatttt tctatgatga 180
attgtctaatt tattagagct atactaataa agaaattaga aacaaattga gcaatgaatt 240
tctaaatagg gcaaaagtta tggataagga atttatttct ctggatatat tagaaaacca 300
aattcgattg tctaatgatg aaactaaaac aaatatTTaa ctaaaatatc tctcaatttg 360
gatattgaac agagagaaaag agtgggaagca ttttggtgcc tgttgtgaag atgataccca 420
caaatattct gatgcaagta gaataaacia tgtgaagcat tttctggagg tttaaactgg 480
ccgaaaattc ttaaaaccct tttaaaacac ttttagccaa gcatttttta gcgggttttt 540

<210> 4074
<211> 380
<212> DNA
<213> Glycine max

<400> 4074

taaggagacg ctgactcaat ttatgtagat atccatgtcc aaatacagga gcacaaagtc 60
atccatcaag aacttggaga tacaagtaag acacttagcc aaacaaatgg ttgagaagcc 120
cactagttgc tttggagcta acatatagaa gaacccgaag gaggaatgca aggcgatggt 180
gactagaagc caaaggagag cacaaggtga agaagagaaa gctgaaggaa accagtctga 240
ggatagaaaag agcagactat gaaagagaga aagagaaaga agagaagaag agtagaacgt 300
cttaaccttt aagacaaaaa gccagctagc tcgagaggta agaaagaaga gccactagtc 360
cctctaaaag agctctcata 380

<210> 4075
<211> 791
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4075

agacgaggtt gaancctgag gccctcgag aggcttcata atatgggaca gacaaccag 60
cgggattgac attaatcat taaatgatg gtttttgttt ttttaagatc acaaactaac 120
ggggcgagg ggggattttt atttgaatta gacttccttc cattgaccat aaaattaata 180
aatattagtc aatattggaa tactgcctta ggtcattaat taattgaact caaaatacct 240
taaattatat tcaattacac cgtaaatt gataaaacct aaaaaaaat catttaatat 300
ctgagcaaat gtaaaatcca ttgcttcaat ttttgattta tcacatgcaa ttcaacatac 360
atttcttaat aagaaccctg caactcaca aaaatctaaa aaatcgcttg ctgaataatt 420
cattgaacac caacactact ctttagctac acggtaaaac attcactgac aaattaaatg 480
tacgccccaa attataatag aagaacact aaaatttctt aaaaacacat ttaataatct 540
cgaataactt ctaattcgct cccaatatca gatactcaca aacattattt atacaaaaac 600
actcttacca accatgcttc cgaaaattta tactccttac caattggtag cactcaatat 660
cttaacttac aaaaaattaa acctcatatc caataggcta actaccattt ataaacta 720
ctaagtaata gtctatcatt ttatatacaa ggaagcaatc cctcttacac ataaactgta 780
caaccgtata a 791

<210> 4076

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4076

agctttntgt aagaatggag gagaggaaga aaatacaata gcaccaagtt ttgccaatg 60
aacttttctt gacaaagcaa gtgttgaaca aaaactctta gaaagatgtt gagaattaag 120
catctttaaa ttctgtgcat ggctcacatat ttatagccat ttgatggctc ttgaggaatc 180
atgttaaaag ttgtgactct tggcaaaagc taatcacttt aaaagttgtg actctctggc 240
aaaaactaat cacttttaaa gttgtgactc ttgacaaaaa ctaatcacat acaaaagaat 300
tctaaggcgg ttagtccttt gaatgctttt gtataaggga aagggaagaa tcaaaagaat 360

tctcagactg tgccgtcttg aattctttga caagggagaa gggagacaca aaagaattc 419

<210> 4077
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4077

atatatttga gggactcatg gtcactatga atgacaaatt ccttgggata aaggtaagtg 60
tgccatgttt tcaaagcccg tactaaggca tacaactcct tatcataagt tgaatangta 120
agggtaggac cacttaactt ttcactaaaa taagcaattg gatgggtcttc ttgcatcaac 180
acagcccaa tcccaacatt tgaagcatca cactcgattt caaaagattt ttgaaagttt 240
ggcaacgcaa gtatggnngc attaattagc tnttgcttaa taacattgaa agcttcttct 300
tgtttctctc cccatttgaa accaactttt ttcttgagca cttcattgag aggtgctgcc 360
aatgtgctaa aatccttcac aaatcgtcta taanaactnt ctaagccatg agaactcctc 420
acctcgggtca cggacttatg tgtaggctat tcttgaat 458

<210> 4078
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4078

atctctaagt cacctgaggc atgcaagctt gtacacaata ccatattgaa agatgaaaaa 60
tctaagactc agaatgggtt ctgctatcct tgaacccaag ctctgatat gagcctgtcg 120
atggaataat ttatgaatat tgagacacgg atatttgaat acagtcaaac aatgatgaaa 180
ccaaatgtgt ccatacatcc aagatccaac aaaacattat catctctact acattgagtt 240
ctaaaaaagt gtccaattat tagagtatgt tgtcagtcaa ctgtaaaaac agttctgtaa 300
actaattgta agggctgtta gcttttgcta acagcaccta tcctagagtt agttagagtt 360
ggttaggttc tgttagttag ttagttacaa tctgttacia taacagaaca gaggtctata 420
tatacctctt ttgtaacctt ctgtaattaa cnttgataat caataaaatc agcctttctg 480
tcaacgattt tctcttc 497

<210> 4079
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4079

tccctgatat attgagaaca tattggataa ctacaactnt gtagtaaaac accttctatt 60
 atttgaagcc acaaagttca gcagaaccac aatgaacacc aggaaatatt aattgattta 120
 atacaaattc atctgcttgc gggagatcat tctatcagag cgaatcacaa gccgatgaaa 180
 atgctaataa caattggttg ggatcagata taaaataata caatggttct tcaacaataa 240
 atcaagttct catcacatct tactttggca atccctcctc gagaagtcac ttcaacaaag 300
 aggcgatgca aatctagttc tcttcctcca acaatgggaa tcctgcaaca aaatttcaaa 360
 tgccacacaa gtaactaana aggagttggg gggacatgct nttatgttac aaagttatgc 420
 aattaaaagg cattaataat taggaggaga caatagttcc aaaaactaca aaa 473

<210> 4080
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4080

agcttgccn ncaattttct ataaacaggg ggagaagtga agtaganaac ggttcagccc 60
 cttaggcact tctctctctt tcgaanttgc ttaggaaaat tgttcttggtg aagaaaatcc 120
 aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct 180
 tcgacgttct tcatcgttct tcagttctca acgggtaagt acctcanacc aagcttttca 240
 attcattcta tgtacccgtg gtgggtccaaa tttggtttca tgtattttta gtctcgtttt 300
 catttacttt ttataccccc ttttgacgtg ctttaagccat ttatttaagt catttctcgc 360
 ttaacctaaa aataaaaataa atttccaccg atcatttgaa ttgtatcatc cgttaacttt 420
 gngtgaaata aattccgacc gatcggtcgt gccgcaacca cattggaaat 470

<210> 4081
 <211> 479
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4081

ctataattct cagcttggtc tctatagatc ttacacagca gaatctctca naactctctg 60
gaacttggac cttctctctc tagaaaccct agacacgcan agctctgaat cccagtccaa 120
actccccttc tgaaatctga tttcaggctt aaatagggtgg ccttgtttgt gctcgtgagc 180
ttaacacact tatggaccgc ttagtgcaca ttagtgaatt tcggccttagc gtgttccttt 240
ctcgcttagc aaatgaactg aagcgggtgca cttagcgaac ctgtacatct tatcttcttc 300
cagagtcttc ctgcgctta gcccatgagt gttgcgctta gcggaggctc gctaagccag 360
cagattggct tagcgagaag gtgaanaata gcactttcca aagcttgccct aattaacctg 420
aaattgagag aacatgataa ttaaacaac aaaaaggaag tactaagtat ttattacct 479

<210> 4082

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4082

agcttcttat ccaaggctca tcttggtggt gaagctcctt ctttcatggc ttattcccta 60
gtggatggcg ccgcctctta cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cttccataga agctccacaa 180
gcaagtttcc atcaggaatg atgcaatcct accccgcaag ggcatggat agaagactcc 240
aagtagattg ggctagagat gcaagagaag gccctagggt tctcatgagc cttaggatag 300
atttcggggc catgggctaa gtatgagccc acttatcttt gtacatatta gattaagggt 360
tcattaattn tgggtctttt atttaaggct ccataatgta ggaagggtac cctagaaata 420
taggaatttt cagcccttgt attttagggc acct 454

<210> 4083

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4083

tgaacgaatg taagacacat cttcttcaac tntgggtgatt cttgactcca tctcattgaa 60
gcgcatatcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagaca 120
atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcacc 180
aacatgtcga gcaccttttt tcaccaaga gccatcatgc tctttttgat aaccaaagga 240
tgctatgact gaagcgcta taaggaagga tcttttgatt ggaacatagg gttcagaatc 300
aagaggaatg ttaaagtgtt gaaagaaaag ggtgactaaa tgtggatatg gcaatggagc 360
attcaatcgc aatgccttat gcatgcgata tctaacaaga cgtgcccaat caatttgtag 420
gcctttatga aaagcccaca taataatgag atcttcttc 459

<210> 4084
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4084

agctnganag aacatttcct aagaaagtat tttccaatag gtgctagaca tgcaaaggag 60
atggagtttc tacgactaat tcaggagaac atgactatga acgagtactc atccaaattc 120
gaatacttgt ctagattttg cacctagact acttcaaaag aatggagatg ttgaaattat 180
gaagaaggag aaagaattga gatacagaaa acaatcatcc cggtgactat tanagagtcc 240
ccaaagctag ttgaaaggat caagacagtt gagtgtcttg agtatggtaa tagagttggt 300
aggactcgtg aagcttgacc atgtggatta aggaaaagat tccagtagaa aaaacgtgca 360
gtaggcccca agaccagcaa aagacaagat ctttaattat cagtagtatg cacaca 416

<210> 4085
<211> 472
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4085

tataagaaca nnaatgcctc aatcatttcc aaatatacat gtgaattang aagcatcgac 60
aagaatcaag ccaagactat ggtgcaagca atcaatgggg caaacacac caaatgatta 120
tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180

aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaagat atcaagaaat 240
 tntatttttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300
 caaagtcgta catgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
 aacaaattaa caaattaaca caactaaca attaacaaaa ccaacaaaac tagcaaaacc 420
 aaagaacact cccccccata cttaacaac acattgtcct caatgtagca ca 472

<210> 4086
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 4086

actttgaagc tatttaataa tgtttaatta tttacaagcc tttgttcatg ggtggacaat 60
 ccttacaaat aattacctga ttcccttcta gttatttgaa gttagaatga aattttactc 120
 tgtagtttaa gcttaagttt aagttagtag atgaaacaag ccaatatact tgttttattct 180
 aaactactat cgttatgatg aattatttta attctgtcat gtaggtatat catgaattca 240
 attattacag tgttgatatt caacggaaga gtatatgaag acaatgatgg tgtaatatct 300
 gaaggcagta aaaatgcatg tcacaataaa cgcgaaatta gtttc 345

<210> 4087
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4087

atcctctaga gacacccgcc gcatgcaagc tntgcatacn ccaaggatcc attatgaaat 60
 tacttgtgaa agagagccat gtgggtgggt tcatgggcca ctttgaata gacaagaccc 120
 ttgtcttact caaagaaaag ttttattggc cccatatgaa gaaagatgtc cataagcatt 180
 gcactacgtg tgtggcttgt ttacaagcca agtctagggt gatatctcat gggctataca 240
 cacccttacc catcccatct gcaccttgng tagacattaa tatggacttt gtncttgggc 300
 tttctagaac ccaaagaggt gtagactcta tctttgtggt ggtggatagg tgtagcaaga 360
 tggcacactn tataccatgc tacaacgtgg atgatg 396

<210> 4088
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 4088

caacccgggc atagtcgggc agcgagaacc tgtaatgtac ctaagcaggc gagctcctgg 60
 cagtcaacag ataaaaggaa aacaagacca caaagcaagg aggcttgtgg tggctggcca 120
 gcttgtgaat ttgtataata tgtggattgt ggcctctggg aatcgattac taagggtggg 180
 taatcgatta caaggctaaa aattgaagac aggaggttaa gatggtctct ggtaatcgat 240
 tacca 245

<210> 4089
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4089

agctagtacc atanattaca accatgcctg tcattgtctt gatttaggag caataacaga 60
 atcatgaata aagtatttgt gcagttgaag ccaattaact gaaatgaaag caaatacaat 120
 tttctatttt tttgttctca ttnttttaag ttttttcttg ttgtagtagt tactttttat 180
 tgattcttgg atatcatgat gatgctttgt ataaacttgc tactatcagg tatgtctatg 240
 cctaccatgg aacaaaggga ggaattgtat gatcccttgg caatggcctg gtggaccaag 300
 cccgcttatt aattattata actcggtatg aatgtttttt ttattagaaa tcactatcta 360
 tttgactggg ttagtgtag gtgcttaaat tgaaacaatg gtgtgttatg tataaaaaaa 420
 atggattata catatt 436

<210> 4090
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4090

tctgcatcgg gaaggttaagt gttggtgcga anatggaaga agaatccatg agatagagaa 60

tgaaagaatg gatatgcgtg ttgttgaaga agaaggagat tgggaatata ctgtgtgtgt 120
 tgtgaatgtg aagtgaaggg gatggaacat gaggctcgga acttggttgt gaaaatttga 180
 gggatggatc ttcttagtgc ctcaatagat tttttatfff ttctagccac gaggggatat 240
 ggatgaaatg aatftftftft tftftftactt ttacatacac tatgacaaac aattgtaggt 300
 ataagtatft tttgactftft acctacacta atfttatgtgt gtagggcaaaa gtctccgtaa 360
 gtatatgtca ttnttcttgt agtgagggag ctatgggacc agcaaaacct gcagataggg 420
 cagatcatga gggatgatgat cccctatatc tgaatg 455

<210> 4091
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 4091

agcttagaaa tcaagtgtt agaatcaag tgatcaagt atcattaatt ccaaaacata 60
 gggggagtat gaaatgagt aatgtaacat tatatcttgc atatactctg cttgtatctt 120
 gatttcagga attaaattgt catcataaaa aagggggaga ttgtagaaca agcaaagact 180
 ttgactttga tgttatgat atgccatat atcatgaggg tttgatattt tatgaaaatg 240
 cacttctcaa gtttaattca agacaaaaat ccaagaatac aacatacaac atcaagaaga 300
 tctctagtga tttaggaagg gaattccaaa ttgaaacaac aaaatgtttg gccagaatat 360
 ttaagctaaa atgtcttttc aagttattac tctctgcaat cgataccaaa ggatgtat 418

<210> 4092
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4092

tgttaactaa tcaatcgtat ttctgattct caattganaa agaaacataa tatttggcca 60
 agctatcact ggccaatcaa tcatccgatc tctaacttat aaagaagatt cataattgat 120
 aaaaatgttg tactttaaat ggtagaagaa ttaagttat aacttgccaa taagttaact 180
 gatctccaac gtataaagaa gattcatgat tgataaaaac actctaagtt atttagttgt 240
 ttaattttct gctagaagtt attgtgtcat tcatgtctat ctcaaccatg tactcttgta 300

tatggcggtt tatttatatc gatcatgtca tttgtgtcga tttcatccat gaactattgg 360
 tgtcatggcg gtttatttgt gccaatcgtg tcaattctgc tagagttttc ccgtgatgat 420
 catgatcgtg atcattcctt acttcgtttc ttattcgg 458

<210> 4093
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4093

agctttagc anatgcaaac ggcaataaca ttttactcga atgttctatt tagtcacgta 60
 atgcatcaaa atgctcgaaa ttgaaaacag aagctcgggtg caaattcaaa cgacaattag 120
 tttttactcg gatgtccgat tgagtcctt catatatcga gacgctcgaa attgaaaacg 180
 gaagcttgta ctatattcaa acgacaatca tnttttactc ggatgtccga tggagtcccg 240
 taatatatcg agacgctcga aattgcaaac agaagctctg agcaaattca aacgacaata 300
 actttttttt cgaatgtccg atggagtccc gtaatatatc gagacgctcg taatggaaaa 360
 cagaggctct gacataattc tacaacaata catttta 397

<210> 4094
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4094

togaaattga acaacgtaag ctctcgagaa attcaaattg acataacttt taactcgggt 60
 atccgattta ggctcatcac atatagagac gctcaaaatt gaacaacgga agctctcgag 120
 aaattcaaatt ggtcataact tttaactcgg aggtccgatt caggcgcata atatatcgag 180
 acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggacataa cttttaactc 240
 ggatgtccga ttcaggcgca tcatatatag agacgctcga aattgaacaa cggaagctct 300
 cgagaaattc aaatggacat aacttttaac tcggaggtcc gattcaggcg cataatatat 360
 cgagacgctc gaaattgaac aacggaagct ctcgagaaat tcaaattggac ataacttnta 420
 actcggat 428

<210> 4095
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4095

agcttatatg gaggctggat ctttgagctt caatgaggtc cttcaatggt gattntccat 60
 catggagatg cagcagaaga taaaggaaaa gaggtaagag caggcgccat ccactacgga 120
 ataagccatg gaagaaggag cttcaccacc aagagagtgc cttggataag aggcttatag 180
 agaaagcttc aatggaggaa aataaagaga gagagaggaa aagagggaga aaaagtgaac 240
 ttcgaagtat gtctcacaag actctcattc atcanagtta caacaagcat tacacatg 298

<210> 4096
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4096

ntaggatatg taatttatat tntatagttc aagacaagca aaatgaaaca ataactcaac 60
 tactgtgacc actccaacat aactattgcc actgaacaag ttacttcatg tttagaattc 120
 tgcattttat ataatcaaca tatgaaagat ggagaaaata ttgtaatttc atgacattaa 180
 cccacttgt ggtgattgat gtangtggtg attgagttat ttattggatt cttgcttcca 240
 tttgggaccg tgttgctcat catcacaggt acaaatgttt gttaccgatt aattntttta 300
 ttacttgttc actgccatta aagacaacta atatttgata tacaaattnt gttcatgatg 360
 agagaacctt agattcccggt ttgagactga atgcaatgat tcttgcagac agtttgcatt 420
 aatcaatgta ttcaatcttg aattgg 446

<210> 4097
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4097

agcttctccc ncattntcct atatataggg ggagaagtga atggaacana tgttcacccc 60
 tcctggtaat ttgagaatca cttgaaatta gtgaaacaaa ttgtttccgt gaagaacatc 120
 caagccgagg cgcttctgta acgtttccgc gggtgatctc gcgaagattt tcaaccgttc 180
 ttcgacgttc ttctgtcgtt ctctgtcgtt ctctggactt caaccgataa gttcccgaaa 240
 tcgaactttt caattcattc tatgtacgct tagttgtcct catttgtctt caccgacctt 300
 tat 303

<210> 4098
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 4098

agcttgtact gagattcttt tcttattaat aatatgccag ctaaaatatt tttggtacct 60
 atagtttggc aattgccagc taaaaaatac acgctcacac aaattgaaac atctaccccc 120
 tcccacatac caaccagtt atgttaatca taattaactt taattatgat gattatcatt 180
 ataaatacat aaatattata aaacagagga aagcagcctg gataccaggt tcttctttga 240
 ttcttgagag gtggttggca attttagcct agcaaacaac tcctggataa atgtactgtc 300
 atccttcaac aaagagacaa tctaaaaata atagagtaga caacaataag gacatcattc 360
 actaaattaa atgatatgtc tttattccta gttaatcaaa tcttagatag acctgacctt 420
 ttcaaacctc tttctcatac 440

<210> 4099
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4099

tctatagaaa ctcccagcca cccaactgat aagcttttat taataaaaca atagaccttt 60
 tattaagcca ctcaattccc tctaattggc ttgcaatcaa gtattatggt gagctgaaga 120
 agtataatat taaaaacaac ataaaatatac attattattg agttatataa taagtagaat 180
 aaaacaatca aggaaagggt gatcatttga cctttcacca ctaaccacac aaacaacaca 240
 agagtagccg atcacaaaga anagagatat tcgtaggtca ggcacaaagt agcttatcac 300

aaggaaagga ggagacaaat cacaagatta aacttacctt tacaccatca tgtgtacatt 360
tcttctttat ctctctcca aaattatcct ttcttatacc atatat 406

<210> 4100
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4100

agctngcaaa agacaatgca ataagggcct tatccatggg ctcttgcgaa ctccatccaa 60
caaccatgat gcacatggat cttcaacttg gtttctacat tagccaatta atataagtga 120
tgtggattgt tctacattag taggtccttg catgtcctta ttgccatata ttttaataat 180
taagtcactt tatttattta tcggagtttt ctaagttgtg aatcttgatt ccaaaacatc 240
aaccacatca aataatgatg aaaataaccc aaacatttga ttaattaaac gaaataataa 300
gaagatgagt caatcctttg cgatgggttac gataagattt caatgaattn tcatttggtt 360
atcatatctc taggatatta aaataacata aaaatcttat tatcattntg tggggggggg 420
gg 422

<210> 4101
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4101

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gcttcacgga cctaaatcca catggtctct gatgctgaag gagcgtgtgg cacaatgct 120
gagtggaaag ggcaactttg gaagataaaa gtgtttgcca actatcgtgt ttttaattggg 180
tccttggaat aacctccatc tctctaatac ttcccttaaa ttaaactatg atgtataaag 240
tttttaggta agggaaattt gttaaatttt aaataattat tttaaaagtt tatatcaata 300
attattattt atttattatt agttgttaat acatatttat tcaactttaa aattaagaat 360
tctccttggtg ataataaaaa aattatcctt gttttattnt gttntgcaac aattganaaa 420
gaaacaaata aagaattcat gattntaaaa tatcaatttg aaccaattc 469

<210> 4102
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4102

agctnttcan aatatttatg tattttctttt ataaccttcc ttctctcttc ttcaacctan 60
 aagtttccaa aatcttggtc tcaaactcgt gactcttccc tcacgtcgat gatcatcttc 120
 ttcaagaaac gccgtctgaa ctgcgagcg tctatcggtt gcgggcgtag ggggacacat 180
 aaaattgcac ctgccagtca tgggagcagt tgctcgctatc catcacgtga cggaggtgct 240
 tgccggcgcg gaggatctcg atcattcctt ggatcgctga cggaatgctg tggtcgggtg 300
 aggtgatgta tgctgccgta tcccgattcc cctacgactt cccatgccgt atcagtattc 360
 ttaattttag aagcacacca accatatatt ctcttctctt tgcattccat tttctttcat 420
 gctgacaaat ttaa 434

<210> 4103
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4103

tacgttacct atgaaaagaa taganattnt attgtttaca ttntgtttgt taaaaatcac 60
 tcatattttg cagaagaaac atcctacttg aagtgggtaa aatcactgtg catggacagt 120
 aaagttttct tttttgtatg gttctcaa at ggaggaatt agatgggtccc actaattttt 180
 caattattat tttttttttt tgcaatttgt taaagttttt gttaatttat gggcacaatt 240
 tattcacct cctaaactctt tctgatgata ttacctggtg tacagtgaat ttgcggtaat 300
 tcccattttg agactgatgt tgaagctctt atcccgaagc aatttttagtg aagacttctc 360
 canataatca tggactaaaa gtgtagctga gattcttaag ttcgcttttc ttttgtagt 420
 ctaccattgt taatctcttt tatacataga tttttt 456

<210> 4104
 <211> 462

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4104

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agctntgtcc gcanaaatca ctaataaccg ttttaaggtc caacgcctta nacggccctc   60
tttgctttta tcgattaaca tggaccgttc aaaagcataa aatcaatatg taactttact  120
gcttttgcaa gaactacgta ggtctgattt cctcatcgca attgaggata tgtaggagca  180
aaagccccgc ttttgctgac caccccaaga gatcgттаат ggтtcaacgc cttaacattt  240
ctctcctttc aaaaacaaga gatcgттаат ggtccaacgc cttaacgttt ctctcctttc  300
aaaagaatca aagatcgттt aatggтccaa tgccttaaac gacttttgтg cggттaааat  360
cgatcttgcg aaaaaagatc aaaacaactt aactggaaat actgatcata cattagtatg  420
attaaacatt gtanacacaa tcaaacaatt ttcaacaatt at                        462
```

<210> 4105
<211> 415
<212> DNA
<213> Glycine max

<400> 4105

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atgcaagtca attgtaggaa acatctcgga gaggatcttt tctgtgcata tttgcgcaaa   60
atgtcttgaa ctaagaagat gttgtccatc atctttctgt tcttgatgaa ggcagtttgа  120
gtttcccaa caatagtctc acgcactgtg gctatgcggt tggccaaaat tctagacaca  180
atcttgтatt acaaattaca gcaagatatg ggtctaaaat ggтtaacctg agaggtctga  240
tcatgcttag gaataagcgc aataataaca tggттgagтт gctttaaaaa tttgtcagтg  300
gtaaagaatt catttaccgg ctcatagata tcatcaccaa tgatattcca agcctttctc  360
gaaaataaat cattgagacc atctggccct acagctttat tgттatccat cacag       415
```

<210> 4106
<211> 323
<212> DNA
<213> Glycine max

<400> 4106

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ttgtcagcta tgtggagcca acttcaactg tcttttgatg attttatgaa gcattctcga   60
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ggctatgaag agtgtgttaa gagctccaaa tctacaaaca tgggtgagaaa ttcattgttta 120
 gggttaaccc tccctgtgag agtgacctac ttttgaattg ggccttcaaa gctcgcaata 180
 acttttagata caagtgtgaa attatgtttc taagtggaaat ccttctactg aggagaaaat 240
 ctataatttg tgacgttgaa tcacacactc acttttctat aaagaccggc cgtggctggg 300
 agtggagaaa tctaattggg tag 323

<210> 4107
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4107

agcttcaggc tgttcaattg ctccatattg ctgcacagaa gggcaaattg ctgtatgggtg 60
 gtcggtagag gagcataaac cacagagtct tacgacaggc acatatcttt gattcatggc 120
 cagttgggtt accagggttaa ccaaggcgtc tagcttacct tcaagcttct tagtttcaga 180
 tgatgcagct gagtttgagg ctacctcatg cactcctcca atgactatag catcatttct 240
 agcgctaaac tataaggagt tggaagccat cttctcattt aaattcctgg cttcagtang 300
 ggtcatgtct tcaagggtc caccactggc agcatctatc atacttcttt ccatgttact 360
 gagtccttca taaaaatatt 380

<210> 4108
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4108

taagaaagct tctcaaggaa gctacctagt ctataaatag aagcatgtgt aacacttggt 60
 gtaactttga tgaatgagag tcttgtgaga cacaactcaa agttcaactt ctctctcttt 120
 ntcttcttc aatttcattg tccctctctt ctcttctctt ctctcattct tttcctccat 180
 tgaagcatca tctccaagct tcttatccaa ggctcatctt gggggtgaag ctcttctctt 240
 catggcttat tcttaattgg atgacgctc ctctcacctc ttttctttg tcttaagctg 300
 catctccatg atggaaaatc accattaaag gacccattg aagctcaa 348

<210> 4109
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 4109

agcttcttat ctaagggtact ctcttggcgg tgaagcttct tcttccatgg cttattctct 60
 agtggatggc acctcctctc accacttctc ttttatcttt cgtcgcaact ccatggctga 120
 gaatcatcat tgaagggcct tattgatgct caaagatcca tcttccataa aagcttctca 180
 agcatgcttt catacaaaat acacaaattt cttgtcgcta ggcctggatc tatggattat 240
 tggagttaaa tactccaatg caaaatcaaa ccttttcgct ttcaacacta aatataggaa 300
 aaactttcta ttcttcttgc ccaataagaa gaaccctcca aaaccggacc agtgatga 358

<210> 4110
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4110

gacactactg aaactcagct tacattgaat tgataattct tttataagag attgataata 60
 ttatgttgca caagtagtaa ttagaattta cgagtacttg ttttatggc tcgngaataa 120
 tagagccatg cgccatgtct attttgatac antttttata taatattatg caggtccctt 180
 aacgtgggta ctatatatgt atgggtactg gtagctatgc ttcctcatca taaatcatgc 240
 ttattggctg agattttattn tctcagatgt gcataattac caaaatatgg tgcaaaattt 300
 cactattcct tttgtttcct acttcattga cgatacttaa tattcttaat ttggacagct 360
 ctctttgttc cttctttttg cctaaaaaat tttaccatac atagacatag agttcattaa 420
 atctagcact gaccattatt acaaaatctg actggag 457

<210> 4111
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4111

agcaagcttt gtatattgcc tctgtgctgg atatagagac tactttctac tttctagacc 60
 accaagatat caagttggga ccaacataca ctgctgcacc agagtttagag tgcctatcaa 120
 tagggctctga agcccagtaa gaatcacaaa aaccttacat gggaagagtt ttatgaggtg 180
 aggcaagata caaaataagt cctgaatgta aagcaccctt aagatacctt aaaattcttt 240
 ctactgttgt ccagtgggat tcaagaggtg cagacatgaa ctggcaactt tatttcaaca 300
 naactaactc tagatgagtg atagtacata ctgacagctc cacaacagat ctg 353

<210> 4112
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4112

tgtcgattaa attgatttgg atccatttgg cananaagaa attaaactac aattaanatt 60
 gacaagaaga gatggagaaa ttaagattga gaatgagaat gaggaattgt gtgggaattg 120
 tgaagatcaa tgatacaatt tataggattc tttatggcca atatttagaa ttnttttagta 180
 tganaaatag tgaacataac atttatgagt tgcaactagt agcaaacagt ncaatttttt 240
 atttgtaaat cgtaaaattt tgtagataac gttcaattat tcaactactc tgatcaccta 300
 ttacaaacaa cgacaacatt tccaattgtc acaatggtaa taactttgtt tcttttgaca 360
 tgcactacac gaggcatacc aggtctctta aatctcccca cacagcattc ctt 413

<210> 4113
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4113

tcttacaaga gactaagana tttctgacng aaaattntga gatgaaatat cttggggaag 60
 cctcttttgt attaggaatc aagatactaa gagatcactc tcaagcatnc taaggttgtc 120
 acaagagagt atactgataa ggcctagata gattcggcat gaaagatagt aaaccagtag 180
 ataccagat agctaaagga aacaaattta gtctcaaaca acacccaat aatgaccttg 240
 aaagaataga gatgcaaaat atttcttatg cattagcatt agaaagtcta atgtacgctt 300

aagtttgacac tegtctcgat atagcatttg tagtaggagt tctgggtaga tattttgagt 360
atcctggaat 370

<210> 4114
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4114

agctngtatg agctagagag agagagagag agaggcacat gcttgatgct cgtgtgctga 60
gcgtgtgatg gattgtgtag aggggttcaa tggaacctgt atttatagta attgaggatg 120
actgttggcc tttgtttgta ggggctattg cagcctttct agataattct aggcttctag 180
ataatagcca ggagcttaca tataatgtta gagataaaca tttacttata gataaaagg 240
agaagataat tgtaccttgt agataatgtg tgagcttata gataattaat tatctgctaa 300
tagataagat attcaaatac atttgaatat tcataagtta gagatataac ctgtttgttg 360
gagagcccgga ctactaaggg tcaatcgtct gtgctcctgt agtagggcta acattgaggg 420
tggacacgtg tctttgcgtg tcatatanga tgtcacgtgt attntatgg 469

<210> 4115
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4115

gagctgcact ngatcccaca agagaaaaag cgggtgcaaac aagcatcaca aaggaatctt 60
ctttggttct aatgtcccta cagcaagtgg ccaattcaat tccaacagac agtagcaaca 120
cccccaagat cccactgga aactgcctta aaatgtgtgc caaagaagtt cccaacacca 180
aaccaaacac caatttggca acaccaagaa gtgccacaca cccaccactc cttccaccaa 240
atttgtattg tcttgcaagt ccaccagcac catggcaaca tggcattgca ccaaaccaac 300
taccaaccaa attcatcaac cctacactca ctgaaagtga agtggcagaa aattccctct 360
ctgggaacaa atcctttgac aacttgcaaa cagctatcac tgagttttaga attgacaatg 420
ggagctg 427

<210> 4116
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4116

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 cattcttggg tggccttgat tntctcaggg tccacttggg ccccatctt accaactaca 120
 aaccctaaga aaactatatt ttctacacaa aaagtacact tctctatatt tgcatagagg 180
 gtgtttttcc taaggactga aagaacttgt ctgagatttc ataagtgatc atctaggctt 240
 ctactgtaca ctaaaatata atcaaaataa acaactacaa atctacctat gaaatccctt 300
 aagacatgat gcataagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc 360
 actagccatt catacaaacc aaacttggta ttgaaagcgg ttntccactc atcacccctt 420
 ntcacctga tttggtgata cctaacttta agatcaatnt ttgaaaagat attggcacca 480
 tgcaactcat caagc 495

<210> 4117
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4117

ntgacttaag tcatcaagag attataaata tgtgaccatg gcatgaattt catatcatct 60
 ttctaaaaca tctctttcaa caatcaagaa atctatcttt caatcttctc tctcaacatc 120
 attcaacttt ttctatagaa ttttctgatt ctttttctct tcatcttctt aaaagttntt 180
 gttcaaaaat ttctcttcta agaaaagttc tttgttcaaa aacttgtgct attcatcttt 240
 ttcagtctct tctcccttg ccaaaagaat gaaggactaa cgcctgaga attcttttat 300
 ggtacaagtt gaggtacat ctacttgggg attgttatac taagaacaag agaggggtaca 360
 tctcttgtgg atcagttcaa gtggagggtg catccacttg ggttttcaaa gagaacaagg 420
 gaggggtacat cccttgtgga tctttggctt gtaaaggaat ttac 464

<210> 4118

<211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4118

agcttacaca aacattcatt agtccaacac aactcaaca aatagtcac atccgtccat 60
 agtttcaatc aatcatgctc agtatgatgc atgcacctga cctcaactct caaatgcaat 120
 gtgagaccat ccccaacgaa atagcctaag tgtgtccaca cgactctctt acttaggaga 180
 actaggcagt aagtgtcaag gttaccctat cgtgcaatgg caactcccc cttcccctcc 240
 cccccacgg tgatcagcct gagtcttaag ggagttccaa atcgagtgac atgcactgac 300
 ccagcttata ctatttccat gtcatatgaa gnatgaaaca agggcaccat caatgctctg 360
 accgtggata atataagata ttaaaccctc tccctctaga gatg 404

<210> 4119
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 4119

acccaacccg ggcataactca gtccgagaga acctatgacg ttcctaaaca ggcgagctct 60
 cggcagtc aa ccaataaaat aacatagccc acgaagcaag gaggcttgag cggcgactag 120
 cccgctatat atcttgcgct gtatatgaaa attagtcgct ggcaatcgat taccattcgg 180
 gggtaatcga ttacaggggt taaaaatgga gacaccatga taagtagctt ctggtaatcg 240
 attaccaatt gtgtgtaatc aattacacaa tgctacctgc tactgccaat cgatttacat 300
 atatgtgtaa tcgataacac aactgtatta gtagacttca ctctgcttct c 351

<210> 4120
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4120

agcttgtggg tggtgtggag ctctatttga agaacctaca taagatntgt tagaatgtcc 60
 tagaaaaaag tgtagtggg accagaatat gcattattat tttgtgggtc ccagccataa 120

ggctaatttg aacatgagcc acctctgtag ccttgatagt ttccttggaa gttctattga 180
 ggtcttgctt gattctatat ataatgggcc tctcttctct attgacaatg ctgaatagtg 240
 gccattctga tgggtgaccac cacagaagtc acatcttaga actcgttgaa cttgatgagc 300
 ttggtgtggt ttttgtgatc caccttattc atattgttga gggagttaac ctatctgctt 360
 ggttaaggcc tctatttggt gagacaagag tttgttctga gccaacattg catttagagt 420
 atcaactcca ttataccatt tctttgaatc ggagctctat catggtgact 470

<210> 4121
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4121

cgacactatg aaactcagct tataagtgcg ggtctgggag acgaagggtca agtgggtcgcg 60
 atatacgaag atgatgttct gagtacattg gatttggtac gaccatgccc tctgatttc 120
 cagctgggaa attggcgagt ggaggaacgc cccgcattta cgcaacgagc ataatgtaaa 180
 cctttacggg tttaaaagct ctatagttgg gcctaggatt tagagttttt ccttttgta 240
 aggctttgtg tcttttggtt ttgaatttat aatacaagga cctttcttca tctgttccta 300
 cgtctctacc cattctcatt catttgcatg tttacttctt tttttctgaa acggcatatc 360
 cgatgacgag tccccgaag gtactaatac ctgngacccg cttatcaact tcgagcaaga 420
 aacgaatcan acggaagatg aagggaaacga ggaagtggga cttccccccag aattagaaag 480
 gatg 484

<210> 4122
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 4122

tgcgcatata tggattcgct cactacttta taacagctta tgcattccaaa gcgctacaca 60
 attgacctgg ccgaaaatct tttataaaaa tattcatcag cgtccaacac atctttttgt 120
 ccaactcgct aacaaaactt gtggaaatat tttatacttt catttaagat ttcttcatcc 180
 aaaaatgaac actcgatata ggtcttttct ctatgttggt cgaatgctaa gggttatttg 240

tgcttacatt cttcattgta tgaaccttac actgatattc cttttcgttt ctttcaaaga 300
 tgctctaattg tctaaatttc aaacatgaag ataaaacaat tgtaaataata agcacaacct 360
 ctgatcaciaa taaagctaca caacgaggtt caccagaagg agaagaattg aagtgggaag 420
 atgcataaat attgtatata ctttcagagg gtgtctata 459

<210> 4123
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4123

tgtactccat tgaatgcccc attgtgcttt tcgatctgcc tctacttcc acaatcctgc 60
 tccccctcta tcttctcca natcaaagtc catagagtgc tctaactatg agaagcctat 120
 ttcaagctac atttcacttc cttcacttga aacacgatct ttgtcagatc tataactacc 180
 cctgttaciaa ccacaatggg ttaccactag aatggatatc tccacaattc ttactaaatg 240
 aatcttgtca ttgatcatta cccttaacga tgaagatata atctgaaggg acgaagtga 300
 caccataatt caagcatagt ctgctctcaa gaaattcttt gtttcttcat ctatgtcaac 360
 caaagctcat attccattga caatccttga taagtattct tcccccaact aacaagggaa 420
 tgccatagca ctttacc 437

<210> 4124
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4124

agcttagaga tgcaataatt taatataatt tactgtattg tacttagtat ctcatagcta 60
 aactaaaciaa cgtatcgaat catctaattc attaatgttt tattnttgta atatgtgaag 120
 gatcaataaa acataacaga caaggaagaa catttttcac gaacgaatga aaagaaacac 180
 ttatgtcatg ggatgatcaa cttaactacc ttagactatg ttaatatttg aataacttac 240
 gagacattta tgaactatta taattctact acttttaaac ttattcttgt aataaatgta 300
 agatgaattt aatttgtcta tcttatcata aggctctgac atgtttgttt gacttaca 358

<210> 4125
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4125

gtactgaacc gtaccatgag acgtatgtcg tggtttgaga tctcctttct tcttttgcca 60
 cagtgtcccg atcctcctag tgtcggcatt tgtggaggag acgtgatgca attctacctc 120
 gcaagggcat tggatagaaa actcctagta cattggggcca gagatgcacg agaagggcct 180
 agggttctta tgagccttac ggtagatttc gggcccatgg gctaagtacg agcccactta 240
 tctttgaaat attagattaa gggttcatta tttttgggcc ttggatttag ggctccataa 300
 cgtacatagg gtaccctaen atataggatt tttcagccct tagattgtag gacatc 356

<210> 4126
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 4126

agcttgagtt gaaatccacc aatgatggaa gatcaggttt cagtttttca tcatatgagt 60
 tacaatagat tgtgacattt agtatgtcaa gattcatcat ctaattgtta gtattgtata 120
 tgaatgggaa catgtggaaa attcgagttt attgctgtca gaatcaaagc agggagaata 180
 agtttggtta aaaaacaaaa atagtgtctat ttagtgaccc acttatattt atgttgtgac 240
 tagtgaccac ttactagtga cttcagggtt gattacatga cttactggtt ttcttggagt 300
 ttcaaaaatt atactaatat gtagagctgg caaatgacc tgacccgatg gggtgggctg 360
 ggccagaagg ctgcacatag ggtcatgatg ggctc 395

<210> 4127
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4127

tattatttta tattgattgt aactgtaatt agtactcatc aactttntac ttggactaaa 60

aaattattct ctctatttaa caccagtcca tcacaaagag taaacataca ttnttatcta 120
 attaaaaaaa tgattaaata tgttttttta tatctaaaag atatattatt tttaagttaa 180
 tacatacttt tgggtcaatta ttaattatta aatacctgaa aaaaatttat tttaacatag 240
 gacctgtatt actcttactc tgttattccg atgttccgta gctatttctt aatcataatc 300
 gntcatcctc ttgcaacc agcttctacc ctttcgttcc tctntgcaat ccagcttcta 360
 ccctttcttt gatacagcga cctcgttgaa nacctatatt acatgaggct atgaagcacg 420
 gatacccaag tctctt 436

<210> 4128
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4128

agcttntana aaanatgact actttcntat agttaaagca actcgtatct tccaattacc 60
 actaaataat ccaatctttt tacctaataa aagaaagaat taattacaag gatatgttgt 120
 atgatacaac taggcaacaa agaaagataa atttgtgttca tctaacaaat tacaacaata 180
 ggtggtccag tgatcaagag taaatttcag aatgacaact aacggaacta aaatgacatt 240
 cttttacaac taataatgag ctttcaatgc caaagttata gcctataaat tcaacataat 300
 ctatataaca ttataaaca ttattagaaa gaaccaaaca caagtatgta agaccaaga 360
 ttcacagaat tgatgcaata tgaaagggat ggccacacct tttttaagag aacactccat 420
 gctctttgat tcaa 434

<210> 4129
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 4129

tgtgcgaaga tccatgtata aattgcagct tttggtgtca atccatgggt atatgtattc 60
 aagacatcct actatacata ccacaagtat aaaaggaggg ccacccagga cccacttcag 120
 ggtggatcct ctcttgaacc cggaaaaaaa ggatgactca tgagccctca ctaggcaggg 180

ataatgaata atgaaattga tagcacaaaa agatatttta catcaataaa acatgctaca 240
 ttaataaaca tttgaagaac ccaacgaacc cctcgaagga tatcaattac acccaagaag 300
 attttagaga cgccagacaa ggaagcagta tttcaccatt gatgaattgt aacttcaatc 360
 aaaacaaata tgctattagg gaggtaatga aacaggggtg tgggtcccctc cgaatagaat 420
 cgttgaacca attaccttga agt 443

<210> 4130
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4130

agcttgtcgt gccatccncg tttcaaccta tacctattcc ggggtcatat ccgtccctca 60
 acataaccg agccaccatc atagcgacac cagataagcg tggctacacc agaggagatt 120
 tcacataagc actactctca atttccagt cttggaatga tgttttcaat gactcctctg 180
 cagcctcaac atacgacata gaagacaaac aacttaccaa tatgtcttcc tccccgata 240
 ctataaccag atgcccttcc actacaaact ntaatttctg gtgcagcgtt gacgggacca 300
 cccaaccga gtggatccaa ggccggtcta acaagcaact gtaggcaggg cttatgtcca 360
 ttatttggaa ggttatttga cacacgtggc gcttatggat gtgaataagt gtgtgggttaa 420
 cacttgatat gacaactac 439

<210> 4131
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4131

tctcccccaa ttttctataa ataggcggag aagtgaagt aataaagggt gatcccccta 60
 ggctcttctc tctctttcga atttgcttgg aaaaattgtt tccgtgaaga anatccaagc 120
 cgaggcgctt ccgaaacgtt tccgtaagga atctcgcgaa ggtttcgacc gttcttcgac 180
 ggtcttcatt cgttcttcat cgttcttcga tcttcaacgg gtaagtacct cgaaccaagc 240
 tttttttatt cattctatgt acccgtgggtg gtccacattg tgtttcgtgt atttatattc 300

tcgtttcggtt tactttttat accccctttt gacgtgctta agccatttta ttttaagtcac 360
 ttctcgctta cacctataat aaaataaatt tccaccgatt cgttgaattg 410

<210> 4132
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 4132

agctttattg cctaacaggc caacttacia tatctagccc caagagactt atcataagga 60
 tgcacaggcc atagtggagt atgtgaaaag attgtatgac caagtgaagg tgcgaattgc 120
 taagaagaat gaaagctatg ccaagcatgc caacaagaaa aggaaggaag tggacttga 180
 acccggtgat gatcctggac atttgagggc aaatgttatc caagaaggaa ggaatgatga 240
 gaatcctgaa attggccaaa tgcattgtaa aggcccaagt ggagaagggc aaaggcccaa 300
 gtggagaacg acaaagcccc cgagtggaga aagatgaacg cccatagaca aaggctctac 360
 caagactatt aatta 375

<210> 4133
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4133

tanaagaata cttaattaaa caacttaaga gtgaagtaga aacacttggt ttatactggt 60
 tcactcaa at agagctacat cccagttctc ctttacataa ttgtaaaggg ttccactaat 120
 caaaactttg attacaaaca agtattcaat cctgccactc ctgattgtac aagtattctc 180
 tatgccactc ttgttacacc cttagactcc cctggaatct aagaacaccc aagtattggt 240
 taactctaag ccaactcctag atttcacaaa caaaagtttg aatgaatata atgattcaat 300
 aacactcata gaattcataa atagttaagc taaaagggtca agttcaatta acaactcatt 360
 agttcatgaa caatntatac ttttgtaa ac atcaaaatcc aaggtatgat aaacaatata 420
 aattntgact aagataaaaac ataatcat 448

<210> 4134
 <211> 265

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4134

agcttncaca acatctaagc aattctacat cctacacatc atgaactatc aaaaccaagg 60
aaaacaaggc agaggcggaa aactcagccc aacacaaacc aatatcacia gttttctcac 120
ttaaagaccc cagtaacatt tccttcgttc caatatgttc accgatggat cgactcgaag 180
actactggaa gtccctagtg cataagtcta catcttgacc attgggatct actaaaagat 240
ttccagaacc ccatctgtac tactt 265

<210> 4135
<211> 269
<212> DNA
<213> Glycine max

<400> 4135

agcttctaata aatgaaagtt ataataatga accatgaact ctgcttgac gaatttggtt 60
cggagaacaa gaagagaaag acaaataaca ctggcttaac gtagcgcgtg cttctgttgg 120
atcgcggtt taacgcgcgt gttgcaagct tagcgcgttc ttatgttggg tggcaggctt 180
atcgcggtt tctggtgat cgcggttga gtgcgtgacg cgcgctcacc tatctttgca 240
aataataaaa cggcagtatc ataattaaa 269

<210> 4136
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4136

tctcccncaa ttntctataa atagggggag aagtgaagtg aaaaagggtt cagcccccta 60
tgcaattctc tctctttcga atttgcttgg anacaatgtt tccgtgaaga aaatctaagc 120
caaggcactt tcgaaaccgt tccgtaacgt ttccatgagg aatttcgcga aggttttcga 180
ccgttcttcg acgttcttca ttcgttcttc gatcttcaac gggtaagtac ctccaaccaa 240
gcttctcgat tcattctatg taccggtggt ggtccacatt gtgttctgtg tatttntatt 300
ttcgtttcat ttactcttta taccncttt tgacgtgctt aagccatttt atataagtca 360

tttctcgctt aacctanaaa taaaataaat ttccaccgat cgttcgaatt gtattatccg 420
ttaactt 427

<210> 4137
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4137

agcttgagct gactctatct tggatcattt ttatcagggg ttatattggc aacttggcat 60
aataatatgc atggaattat gttttggctg atggccatgc caaatatttg cccacctttt 120
atctgtaaaa agtttggtat ctcttattct atcgtatgag tacatggaaa tttatagaag 180
tttagtgatt cagtcctttt attaaatttt cttttgctac tcttgaacaa aatatatgtc 240
attatcaaat tgggtacaagg tagccaaaag atcctacctt ggattggatt agaaaggcag 300
agggaaact taagttgtgt aataatatgg acagtatgtt cctgtctaaa atacaaaatt 360
atatccatac ataattnttt gtgcataact gcatataaca taaataagaa ttgtactaac 420
atttagttaa acatacactg aaagaggata aggtcacact cacatatgac ttat 474

<210> 4138
<211> 392
<212> DNA
<213> Glycine max
<400> 4138

tggtgaacct ctcccattac tcatataatg tctctccaag ttgttgctt attgatgcaa 60
gctccattgg agcttgtagg cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120
aagatgaatg gcagtggaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180
gatgagtcta gaagaagctc accaccatat gaggccatgg ataaaagctt ggaggaagaa 240
agagatgaat gaagggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagctct 300
gaaatctgaa gtttaatat caaatgatca aagttgaaaa aaatgcacac acatgacctc 360
tatttatagc ctaagtgtca cacaaaattg ga 392

<210> 4139

<211> 168
 <212> DNA
 <213> Glycine max

<400> 4139

ggtgagagtg agatcttaca gtgtgagtga acgactctct gtgagcaata atctttgcat 60
 gaatctctga atcgtagacc gaaacgtttag atgaggacaa gattacggct atgaatgtgc 120
 atacacaagg gttatgccct ctttgcttac ctatgaaaac atgtggat 168

<210> 4140
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4140

aatgtcaaag aactgggtgt tgaaaaagca taacaagact ttctgtgatt ggtttaaaga 60
 tacaatcttt gcatgtgaga atgcttcaga aacattaaga aagctagcag ataggcctaa 120
 aagaaatggt ataacttggc aaggatacga cataaacaag tattcatttt acacaaaagc 180
 acaagatgag aaaagtacaa tgcagaacag cggagtcacc ctaagggctg aatctcaaca 240
 cttcgcaagt gtgaatgaca ccaatccctg tgtagcttcc atcccttact ttgggttcat 300
 tgatgaaatt tgnagagctta actatgtgaa atttactgta tgtattttca aatgtaaagt 360
 gggtgatagc aacaccggtg cgcacaccga tgatatanga tttaca 406

<210> 4141
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4141

agcttaacat cagaccactt ccagggtgct ggaactactt cacatggatt tgatggggcc 60
 tatgcagggt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
 cagatttacc tgggtcaact ttatcagaga gaaatcagaa acctttgaag cattcaaaga 180
 attgagtcta agacttcaaa gagaaaagga ctgtgtcatc aagagaatca ggagtgacca 240
 tggcagagaa tttgaaaaca gcagggtcac tgaattctgc acatctgaag gcatcaccca 300

tgagttctct gcagccatta caccacaaca gaatggcata gttgaaagga aaaacaggac 360
 tntgcaagag gctgctaggg tcatgcttca tgccaaagaa cttccctata atctctgggc 420
 tgaagccatg aacacagcat gctacatcca caacagagtc acacttagaa ga 472

<210> 4142
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4142

tctgatagct ggttgtaatc gattaagaca acactgtagt cgattaaaac aaagtttttg 60
 cctctgaaga aacttttcta acttagaaat gtttcttcac actaaccatg atgatgcatg 120
 atgcaatata gatattaaat ttactaagac acaataacca aggtaacaac caatataaat 180
 gccactcaag gaagtggggc atgtaaaagc caaaaacttc gtcaaaaactt cttcaagctt 240
 ttccttgagc ttttaagcttt agccttttagg ttgttcacca tgttgctcat gttgcttacc 300
 tcatgttgct ccccctatct ctaacatata gtagtttttc attntgacaa ttataatacc 360
 aattctctaa atagctaatag aagtaatatc aaagctatac tacacactnt ntgataaatg 420
 tcattcttct gaaattntaa tgggttgtag tcggagatta tacta 465

<210> 4143
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4143

tagcttgacg agaggggtgt ttcataact catgctntga aagatattgg cgtggattat 60
 ggagtcactt tcatgacata tgaagtcagt gtggatgtgc atgatgagct gtccggcatg 120
 cagaacacgc gcgatgaaga ttacaatgaa aagaaacaac ttccttcacg ctcaaagcca 180
 gaggcagata cagttgcacc atagcataga cctaaagaac aagaaccaca tggttttcat 240
 gccaaacaag ctcaaccac tgcgacagct acgtggattc cttctaataa gggctcttat 300
 cacgattcaa tgcacgtctc atatccacca tcaagaaata ataattcacc agctaaccct 360
 tcagatgtta cctcatcaaa ggagagaatt actgatgcc aaggaaaagc tatttctggn 420

tcttatgtct ctgaagcaat tgcttccatg gacatgagaa atgacct

467

<210> 4144
<211> 476
<212> DNA
<213> Glycine max

<400> 4144

tataacacta agctggacgt cctgctaaat aaaattaatc tgatgcggtc aacattactt 60
cacatgtaga aagtaatttc aaaaacacac atagctataa aaaataattg aattacgaat 120
aatgtatttc taagtaatca tgtaagtgtt agttgtcaca tcctccctgc ttaggcctat 180
aaagactaat tcttagtaat tgtgaaagta attaaaaact cttaaaaaat cctatggtaa 240
ttagatacgc attttctagt ttagctgac taacaggtaa gttacaaata ttactaatta 300
tgatttgaag catcccatgt tctgggttga atttggttta tccttagttt aacttctcat 360
cttgctctta agagaagtgg aaagtcttta ctaagaatcg tatacatgca ctcccaccat 420
ggcttcaatg tatccccaac atgaattcta ataacaacct tatattattg attaac 476

<210> 4145
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4145

agcttagaca catttagcag acaaggatgt ccaccaataa atataattgc caggaacatt 60
taacttactt gatttcttgt aagtgtcacc agcattgctt cttgaagagg acaacactgg 120
atcagcgact gatgtttgcy aggttagaga tcgaattaca ctacaattcc tctagctagt 180
gcagttactt cttctcgttg acaagccatt actgctgata aaatccctag acaccaatct 240
tactaaattg ttttgatgct cttggtgatg atttacatta ttcagataag aacgggactg 300
caaagtacca atagcctggt aatatacttc agcagccatg gatgaagaaa cattatcata 360
gaggatgaag atacatctta cattttggat cccaggaata tcaacagggt ggattccagc 420
taatcctttc gtgagtaatg cttnnaaaat aacaaatatg 460

<210> 4146
<211> 447

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4146

agctcataaa tgtcttttct gtgattaact ccatcaagtt gtgattgata aatgtttttac 60
ttattaaaag taattntcta gtctccatag tatacacttt taaatttttag tccttacgga 120
aacatctcaa ttttaatcct tcaaaaataa gactttttcac ttttggttcg tgggtgtttga 180
ctttaatcct aagaaaaatc ttcagcagcc aaattttctg tagccacaga ggatctgcgt 240
tcctttaatc ttagtaattn tatattgaat tagtccttct aatattntaa ttgaaaaata 300
atatttttca ctactatnta acttcatttc ttaatcgat tgacattcta gtttaattca 360
aaaactgatt ctaattctca ataactgaca aaaatatagt ggtgagaata tcggcttttg 420
gatgtanata aatagtcact attatga 447

<210> 4147
<211> 200
<212> DNA
<213> Glycine max

<400> 4147

agcttcgtgc attgcacaca cactattaag agtgcaagac cattaacagt cacaattgac 60
actaaacgta aggagctoga catgaatata tacctttgtg ataatgactt ttttattaaa 120
tttgtctatg aacaaacaga atttggaccg atttacattc cacaagcaat attaataacc 180
acgtcgcgcg attgtgacgg 200

<210> 4148
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4148

agtctattac ttntaatcag gatttctttg ggaatatttt ggaggacaag aaaagattga 60
aaataggctt aaaggtgttt aaagatctcc ggaaaggatc gattctacaa gattagttta 120
tcttgaanag caactccaaa gagattatga ccaaactttg tttcaagaat tgctccacta 180
tcagaaatct tgagaaaatt gcgttaaact tggagatatt aataccaagt tcttccatgc 240

ctaaactgtt gttaaaagaa tgaagaacaa aatacatggt ttgttccctc ccagaggcaa 300
atggtgttta gatgattaga ttttaaagtt tgaagcttag aggtactttc aagctcactt 360
ttaaattctc ctgtgcaggt gtgttctaac ettantttctg ttaataacaa tcccaaataa 420
aataggggag aatgaaattt gg 442

<210> 4149
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4149

atgcgagacg gagaccaaca tgctagctat catcgccaag taccaagaag agttaggtct 60
agccgcggcc cacgagcata tgattgcgga cgaatatacg cggaaaaaga ggctagagga 120
agggtgatcg actctntaca ccaagaggca accatgtgga tggatcggtt tgctcttacc 180
ttgaacggga gtcaagaact tccccgattg ttagccaagg ccaaggcgat ggcagacacc 240
tactccgccc ccgaagagat tcatgggctt ctcggtctatt gtcagcatat gatagactta 300
atggcccaca taattagaaa tcgttaggaa acttgtatgg tctctcagac cttgactaga 360
tacgacttcc tttttgaaat aaaatgagtt ggtcccatgt ttctactcca aaaagcttgt 420
gcaaatacaag tcacttccgc attttatctc t 451

<210> 4150
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4150

ttgagccana atcctgactc accatanacc ttgaccagg gtgagaatgt caatccttac 60
cctcgggaagc ggaaagaata gaagggaat ttccaatcaa agaacaggaa agaaggaaga 120
tttccaatca aagagaaagc aaaaaagaa aagaaggaaa attccccaat caaagagtgg 180
gagaaagcaa aaagaaaaga tagaaaattc ccaatcaaag aatgggagaa agtaaaaaag 240
gaagaagaag aaggaaagac agtcctgat cagggatcga aggaaaacag aagaaatgtg 300
cagaaaggtc tttgaaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa 360

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4153

agcttggaag aatatttcat gattctatag aagtcaaaaa tgttaattat tgtgggttaa 60
aaaaatgatt atgttcaaac ttattagaat aaattaaaac attccgcata agctacttaa 120
attaagctaa gctcaaataa attaacattc tttcatagcc tctttcattn tagttccata 180
agttctacca aacttatatt ctcttttcct tttctatctt ttcttatatt atactttatt 240
tcttctatta aattattatt atttttggcc gagacaaagg cagcgcttga gaaaaaaaaat 300
tggaagatca aaataattaa aattataata tataaattaa atgtaattat tatgataata 360
tcgtctctta tgagtgattt taagcatctc agctatttc 399

<210> 4154
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4154

tcacctttag gtctctctca tagttgttgc atgagaaaac atgctctatt ttcactctcc 60
actccaagta ggcctccgga tcattctttc ctttaaatgg aggaatgttg agtttaatac 120
catcaatttg gttttgtcta ggaacaccat cattccctct tctctctctt tcttcttcat 180
tatgatctct attctccatt tgatccaacc tctcatggag cgcacatctc cgttgtttca 240
ttaacctctc caaatgttgc atcgaagctt gcatttggaa ttgcgaaagc cccactccat 300
cattaggatt agtacctgac atctcaaaca aacaaatcaa atgtaacaag acaattatag 360
ttgttggttg aatacctcac ccaactcaagt gtatcacaca attatggctc ttctctaattg 420
aaacactctt gccttntacc actctaattc ccc 453

<210> 4155
<211> 148
<212> DNA
<213> Glycine max

<400> 4155

cgcttgaaac tcaacgaata gcttgattaa cttgtttgaa gaaattgtgg ctgttacatg 60

ccccactccc tggagtgaca attgtattgc ttgctatddd ggatgatgca tcatagtaca 120
tattgatatc tcgagcagca ttgctcat 148

<210> 4156
<211> 468
<212> DNA
<213> Glycine max

<400> 4156

atactcaagc ttcttgagat gcctttcggg aatctcccaa atatgatgaa attttcaaac 60
tagacacaat taagagagtg tctctcttgg ttcttatgtg aaaccttagg ttcttatcaa 120
agaattctat tctttgtagc gaatcatcct caacttatca atctcccaag attgtggcgt 180
tgctcttttc atcaccttct ctaactcggg tttttccctt tcttttcccc aaaagagccc 240
caaattgggt ccacgggttg ctgatgctaa aaattggatc cgcaaatac ggttccatca 300
cattgcgtgt gccaatcttg ttgttgtagg aaatcttaat gcttaactaa aatgaattta 360
gctataattg ctctaacaca attctaaaat ttgaaaagtg actcaaggat ttagttgtca 420
agacggaaaa tccgcattct gacttgagtg tggactctca agttacta 468

<210> 4157
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4157

agcttcttat ncaatgcact ctcttggcgg taaagcttct ccttccatgg cttattctct 60
aatggatggc acctcttctc atggctgaaa atcaccattg aaggatctca ttgaagctca 120
tagatccaac ttttatagaa gctttctcag ctactttcca tcaagcgtac cttgcgattt 180
gtagatgtga gtaccaaggg tagaccttgt gtctgttata aacctatatt cctacacaag 240
ataaagttaa gaataggaaa tattgccaat ggtacacctt gcgtaccttg agttcctgtg 300
gaggtggaac tttagtaata tgaggcttct acc 333

<210> 4158
<211> 408
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4158

tcctcgngc catttcctgc gaagggcaaa cattggaaag ttagttntac cagtgggaca 60
ctactcttaa aacaaaaatg acatacaacc tcctcccata aatacaaaaca tcaatgtaaa 120
tttagagcaa gcttatgcgc atatttcctt acgaacgttc acttgcacaa gacatcctat 180
taactaagaa aaatgcaccc atatacaatc aaggtagctt cattacctag attatttaca 240
tgtacttcca aggtgtatit ggtatttaca tcacacacgc ctcttggct aaatttacet 300
acatgcatac tcaaagcatt tcgngtacc aaaaattgca catgcgctca tcttgggtatt 360
tctaatacct atacatatac aaacttcatg atgaatcttg actaccta 408

<210> 4159

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4159

agcttgagat gaggaagtgt aaaanggtga acttcctgct tttattcggt gaccacagag 60
tggtacctgg agatatgtcg cggggggtcag gagaccttgn gaacgtcagg tgggggtgcta 120
ttgcccaaaa ccaagcttga ccaatccga cccaaccgg gcatagtcgg tcagtggagaa 180
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg aacaaaaacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtgat atatgggttg 300
tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaacgctta aaaatgaaga 360
caggaggcta agatggtctc 380

<210> 4160

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4160

tgctaatta acctganatt gagagnaaat gattattaaa cacacaaaat aaaaatacta 60
agtattttatt acctatactt aacagaaaat acttataacc ttacaaaata accataaatt 120

gggagagttt gatacaattt atataagttt tatacacaaa agttagtcac tttcaccaac 180
 taacagttgc cccaaattta cagtttttgc tgctctcaag caaaaagaga acaactcact 240
 tgctctcaag tgacaatgac atgcagtgat tatgtacgaa ggtgtatgct acaaagtgc 300
 taattgcatg ataagagaat ggagtaaaat gccctcaaca cttgtctttc acaacagtta 360
 tctatagaca agaatanat gtaacctgga cagatagatg aagntaggca taagacagat 420
 at 422

<210> 4161
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4161

agctntagca acaacatgct catctccaat gactaaagcc acgacctctc caacgatgga 60
 agagaatgta gcattcaaaa atctgcaatt ggatgagttg atggaaatgc tcagacaata 120
 aaagatagtg gtcaaggagc aacacaaatt gattgcagat ttgtgaacgg gaaaagaaga 180
 tatgtagaac aaacatttga aagctatcaa atatgaagta gattcgaagg caaagaanaa 240
 gcatagcaaa aataagatga gcaagttgaa atcacaaatt ccattgaagt ctatgaaaat 300
 agagtctcca atcactgtca tcacgaaagt agaaggagaa gtggattatg atgaaatcat 360
 tcctttcaat atgccattct ccaagcgctt aataaaaaatt taggttccaa aacaattatg 420
 gcaacttccg acagtggatt tgtacaatgg atctactaat ccgaacgatt attta 475

<210> 4162
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4162

tocatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgctcctnta aacctccatt 60
 aatttttttc tttaccttct cttccattgt tgtttcttca tttttctcca tgtatctoct 120
 cacatgtctt gttctaaata ttgttaacat gattctttag agtttccacc gattaaactt 180
 gctatagaag ttagatttga ttttctatgg ttcaaatttc ttgttcttag ttcttgaacc 240

atgaattgtg ttgagtttag gttcctttga gttttgtctt gttatTTTTT gtggctgaaa 300
 cctaaaccat aaaattctta caaaaatatt aaagtagaag aaaacctcaa aaatctagag 360
 tgacttgttc acctattgta gttttgtcat agaagtcacg tctagtcacg aaacttgaca 420
 cataagattt cttatgttgt gctgagattt attttcttgg ttc 463

<210> 4163
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4163

tgcagcttgg caattaccat gattacagtt ggaggatata aaggtttctc ttcacaaaag 60
 aagttgacac ttgcattaca cctctgcaca gcagcttgac caatgatgac ctgcataaat 120
 gatcagcctt agccccctacc acaacaacaa cttgaaggcc acaaggcaat taacacagaa 180
 atcttattct tacattaata agaaaaatgt tactatcaat ccactctcta acaccatggt 240
 gaacgtactt tttttattgg ttcaaaccga ataaatTTTA taaatctcgc atcatgattc 300
 tctctcttaa tttgtagggt ttaataaatt ttaaataatc atgttctcta cagtcttgca 360
 gtaatactat aaaggTTAAC catcaagcta gtcataagc ctgtcaaaca tcaacaaagg 420
 aaattggaac tactatgggt tattgtatgt accaatctct acgaagaana actatata 478

<210> 4164
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4164

tctcatccat ctcccaagat ggtccattga agaaaanaat gaagggaaag aacaacaaaa 60
 atgaagacaa agggagtatt gtcaatctgt ttctcggatt caagagtttg ttattggcaa 120
 gtattgactt ttaaactaag gaaaaaacta ttttcttct gtgttctata aatgactgac 180
 aacatcatga gaaaatacaa gattattaga ttataacca ctcaagatgc ttatgactca 240
 tgctgttat ttagagcta cacttaaaaa cacaactatt tgcagtttac caagtaacat 300
 gtgtgtgtaa ttaagagttg aaacttaca cagcaactac ttgttcttct tctggaagat 360

cttcaacaaa aacagctccc ttctcaggag tcttcacaac ttcattcagct gtacccatca 420
tcattagctn ttgaccctgg anaagaagat tatgtagatc aattaaatga 470

<210> 4165
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4165

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60
ttaattcaat cttgaacatc ttgaacatct tgattcaatc ttgaacatct tgaacatatt 120
gaactcattc tttgattatc atgaattgac ctttgagctt tttgtcatca cttttgttat 180
catcaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240
agtaggatca aaagttattg tttatactga ccatgaaccc attaagtacc tgttgaataa 300
agctgattcc aagcccagat taatcagatg aatcttggtg ctttaagaat ttgatctggt 360
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420
tgaggaggtg actttgaaag agctatagat aanggatgaa tntcctgatg a 471

<210> 4166
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4166

tagcaacagc cnncnnaacc caattttgtc gaaaccaagt gtcattgattt ctatattacc 60
aattttgcta gctgttgatg ttgcatcata gttttgctat gtcattctacc tttggtctca 120
tctctttacc ttacaattca ggcaattcta tcattaccct ttttcaatat atagaattgg 180
caacatgcaa acatatctaa tccaggaaat tccaccacta atagtcagcc tataatccat 240
aaccaatgaa gtcccccatc tccaatttat tccattcttct aattttattg tagtttctgc 300
agatttaaaa taagcgtttg gttcttcggt ttaacataaa tctattgttt agtttataat 360
tcaccaat ctgcctttag tcattttcaa catgcagaac tatcaacatg caaagagatc 420
tgattataca aaagccagga tcaacagaaa acgtattatg caac 464

<210> 4167
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4167

agctntggag tttccaagtg ccaattcgtc ctcttcttta gtccagtcctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ngatgttccc agcctatgat 120
 gacagctttc caggttctgc tatccactga tttgaggaag gccaccattc ttgctttcca 180
 gtattcatag ttgcttccat caagaattgg tggctgtgtc actgggtcctc cttctttctc 240
 catgttcatc agaatttatc tcccagatc tcaactctgtg atttcgagtg tttgctctga 300
 taccaattga aattctgata ccacgggaca gatgtcgtac aggatgtcac gacatcacgc 360
 ttcataacat gcagattgta tgtgtccgta tgaacagact acacaagtna ataacacaag 420
 agaattgtaa ccagtcggt gcacctcacc tacatt 456

<210> 4168
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4168

tgtaatcgat tacacatata ctgtaatcga ttaccagagc agattntcag aaaatattct 60
 caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120
 ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatact cttaaaaagc 180
 aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240
 atttgagtac tcaaattggt caatctatct ctttcaagag agatttcttc ttctcttctt 300
 cttcattctg aaaagggatt aagagaccga gggctctctg ttgtgaaaga attctaaca 360
 caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420
 actctcaagc gggttgcttg gggactggac gt 452

<210> 4169
 <211> 463

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4169

 agcttgtatc ttcatgccaa atactttcct ccaactntcc tttatatagt tggattgtgc 60
 agaaaaaggc aaaaaaaga aaagtagcgt taaacttttg cttttaataa atatttttaa 120
 ttttaataaaa ttttaaaata caaagtgaca aattatcata aatttaatct tgcaatattt 180
 tatgtttctt taataaatgt tnttatatat aattctgttc atataaaaat aaagaaatcg 240
 ttctttaatt tattcattcc atttcaaat tatactctca atcaaaattt tggagaaata 300
 atattaatat tttattttta atttattttc ttgaaaaatc tcaattacta attaaattta 360
 tcaaaattca tataattata tatacaattt ataaaaataa aaaatatgtt aggaagttcc 420
 acatcatatg cctcagttct tgagggtaca gtttatatat cta 463

<210> 4170
 <211> 148
 <212> DNA
 <213> Glycine max

 <400> 4170

 gcttgctgct cgagccatca aatgtgtttt ccttgatat tctatattac aaaaaggtta 60
 ccgatgctac tctcctattc acaatcgcta ttatatctct gcagacgcaa cattttttga 120
 acgaaaacca taccttgctc ccttcattg 148

<210> 4171
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4171

 agcttatgca tgganaatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60
 gttaaccatg cattatgtac catgttcaat tattttgttt ttaagtgaac cggttttatg 120
 atcccaacat ggttggtctc taacacatga aactaagaat gtagcgtgaa gtttcacgct 180
 tcccccttct ttgtttttgt ttgttagagg aaaacgcaag gatgagcata catgataaca 240
 aatggtatgc gattctgcag atcaaaaagt ttgctgaacg catatgcatg atgatgccat 300

gactcatgca aaatgtgagg ctggaatatg ataacggact aatgcaggat atgttcatta 360
 tgatgttatg aacagatgct tatgcatga tat 393

<210> 4172
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4172

ntgcacgtat cagtcaagtg tatggacat atcgtagcca aagtgtcat cgataatgg 60
 tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcctccac 120
 ttaaagccga gttcaatggg ggttcgtgcc ttcgacgaca cccgccgaga ggtagggga 180
 gagatcgatc tcccagtaca gataggccct cacacctgtc aagttacttt ccaaataatg 240
 gatattaacc cccctacag ctgtctgttg gggcgctcgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcatct ggtcatcgta 360
 tcaggcgagg aagacatctt ggtgagctgc ccacctcta tgccttatgt ggaagccgca 420
 naggagtcac tagaaaccgc tttccagtct tttga 455

<210> 4173
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4173

agctggcttg tggngcttct acggaggctg gatcttgagc ttcaatgagg tcctttaatg 60
 gtgatntcc accatggaga tgcagcggaa gacaaatgag aagaggtgag aggaggcgcc 120
 atccactatg gaataagcca tggaagaaag agcttcacca ccaagatgag ccttgataa 180
 gaagcttgga gaggatgctt caatggagga aaagaaagag ggagagaaaag agagaggggg 240
 gagcatgaaa ttgaaggaat aaaagagga gagaagtgga aatttgaagt atgtctcaca 300
 agactctcat tcatcaaagn tacaacaagt gtcacacatg cttctattta tagactaggt 360
 agcttccttg agaagcttct ttgagaaaac tttcttgaga agcttctttg agagaacttc 420
 ctcgagaagc tagagcttag ctacacaccc catataatag ctaacctca 469

<210> 4174
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4174

tctagcaact tgttgattga cattaatttc aatccacaga tcagagaagg aataagaaca 60
 tgaacagaaa gaagcttgca gggattctag caggacttat tgcattcggt ataggactaa 120
 caattcttgt gtgggccact tcctcattta taaaaaggat gaatctagga aagccagggt 180
 aaaatttata agtgaacttt taatgatata ctcttgatag ttttatattc taatgaatac 240
 ataattatat tgacataaaa gaagtattct tcaattctga agtttatttt ctatttcattg 300
 tatatccctc taaatagtta acattataac ctccaatata ttaattatga gaaattcatg 360
 tctcccacaa aatcagaaat tataaaaaag ctaattcact ggaagcacat ganagagatg 420
 gaagagaatg acatacaaac aata 444

<210> 4175
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 4175

agcttgatac acgcagagac taacgtcgtc ttttgcggcc ttcgtcaatc gcggccgaca 60
 agcccgttga cacgcagaga tttatgtcat cttccgcgct tacaagatct gtcatactga 120
 gctttgagtc acgctgacgg gcggaaatac ccgagtggct atccgtataa actttttgtt 180
 gtatgtaaga cgaaaagcct ggtagcacgc agagactaac gtcgtcttcg gcgcccttag 240
 tcaatcgagg ccgacaagcc cgtttacacg cggagattta cgtcatcttc catgctcaca 300
 agatctgtca tactgacttt tgagtcacgc tgacggggcg aaatacccga gtgtgtatac 360
 gtataaactt tttgctgtct gtaagacgaa gagcctgata gcacgcagag actaac 416

<210> 4176
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4176

nttcgtctaa cagaatgcaa caagtttata cggataacca ctcggttatt tccgcccgtc 60
 aacgtgactc anaagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaattctc 120
 acgtgtcaac gggcttgtca gccgcgattg acgataggcg cataagacga cgttagtctc 180
 tgcattgctat caggctcttc gtcatacaga caagcaaaaa gttatacggg taaccactcg 240
 ggtattttccg cccgtcagcg tgactcanaa gtcagtatga cagatcttgt gagcgcggaa 300
 gatgacgtaa atctccgcat gtcaacgggc ttgtcggccg cgattgacga aaggcgcaga 360
 agacgacgtt agtctctgcg tgctatcang cttttcgact tacagacagc 410

<210> 4177
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4177
 agcttaagaa catgacacca aaagtaaatt cattaacttc aaaagattga aagaagtgac 60
 tgcagaatcc aacattttaa aataaataaa taactgattg tgagataaca atttttgatc 120
 ttttcaaagg tagatgctac cagcacgcta taaagaggca tattgaagcc cgtcatctag 180
 atttcatttc ctaaattata aaattttcaa ttatttataa aaaaaggaaa gaaagaccaa 240
 agactgcata agaaagaatc ataaagacat aaagaagtac atttttcaaaa ggactgtcac 300
 cttgtagaca tcctccaacc ctttgtcatt tccttcaatg ataaatgttt gaacaggaat 360
 tcttccacga ggtaagtcgg ttatctgtga tgcaaggcaa agttgaaagc atttgcaaaa 420
 gaaaatgatt tcacaca 437

<210> 4178
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4178

tcatgatgat gaatcaagtt gattcaagaa gtnttgataa tgacaaagat gttgacaaaa 60
 agcccaaaga atgatttcaa gattaaatca agaacaatt caagaatcaa gagaagtttg 120

atttcaagat tcaagaaaag atgaattcaa gttccaagag aagaaatcaa gaagacttca 180
 caagggaagt attgaaaaga ttttttcaga aaacaaacat agcatagttt tgtttttcaa 240
 aagagttttt actctccagt aatcgattac cagtttcctg taatcaatta ctagtggcaa 300
 agtttgattt caaaatggtg taatcgatta caagatattg gtaattgatt accagtgcac 360
 ctgaacggtg gaattcaaat tcaattgtga agagttacat cctttcataa aaagctttgt 420
 gtaatcgatt a 431

<210> 4179
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4179

agcttgcttc ccagctcgcc caggcgagca aggttgcttc ctccaaaagc aacaaccttc 60
 tggaggaatc ttctggaggg cccaagtggg gctgggtgct atttgcaccc ccatttttac 120
 taaatacatc cccctgcctt cttttttttg tgattctttt ttcgtaatgt tacgaaactt 180
 tacgaatttc gtaacgatac ttatttttct tccgcaaggt tacgaatcct tacggattat 240
 gtatttactc ttttttagct ttccaagaag ttacggaaac ttaaagattg cgcaaaaaca 300
 cctttnttcg acttccgcca cattacggaa tttcacggat cgcgcaagcc tgcttccttt 360
 agatttctga gacgtctcgg gacttcattt attgtgcaac aaaggacgcc aagta 415

<210> 4180
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4180

tgtaagtctc cagacgacga gagtaaaaac ctgcaaaatt tttgaaaata atcagaatcg 60
 gacgaccaac atcatccaga taccgtcgaa tttgttcacc tcgattgatg aaaggagcgg 120
 atgatcataa ggtatctctg cctgccacct aacttgctgt ccctggatga caaaagggtgc 180
 ggaagacgat gttattctct gtatgtcaac gggctcgttt gcccctgggt aacgaaaggt 240
 gcggataacc atacagtatc cccgcatgtc acctgacttc atgggtcagg atgacaaaag 300

gtgcagaaca cgatgttagt ctctgcgcgt caacgagctc gtttgcccct ggttgacgaa 360
 aggtgtggat aaccatgcgg taccctcgca tgtcattgga cttggcatct ctagatgaca 420
 taaggtgcan aagacgacct tagtctctac gcgttaacgg 460

<210> 4181
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4181

agcttgccga cagtagtaat ggcggattgc atgtaaataa cagacccgca ccggatattg 60
 ttntgaaacg gaccctctct cgtaaattgg ttctaaaagg aaccccatatc agtaaatttg 120
 ccaagaaatt aatgctgtac ccataaaata atttttttaa atgaatacta atgttatacg 180
 agataataaa aactgatatt aattctatga ttttattttt taatattata gtatcgacca 240
 tgaataaatt atataatatt tttgaaaata tatatacgcg taaagaataa ttataatttg 300
 ctacaatata agcattctga atccttttat catgagatta tatatttt 348

<210> 4182
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4182

tatgaagctt gtctatgatc tcttactaag tctgggttatt tggatgtagt agtggctcat 60
 tttataatga actcaccctt gcgattatgc atcgtgtggn tgatacctgt gatgatcgcg 120
 aaccttgctc atgggagcac aatgacaaca gcaaggtgca ggaagtgaga ctctgctgag 180
 gagccgtcga gtcgacgtga tgacgctggg attattttgn gagagaggcg tatttcgctg 240
 atcaactcct ccatagtagg ctcatgattc cttcgtcga actatagatg taaagctcat 300
 atgttgaatt atatgtgaac acattttaat tttcattatg tgtgtgacgt atac 354

<210> 4183
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4183

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agctatattg aaaccattnt cttcaggcaa tggagctntt acatgctagt cattcattnt 60
ttccaccgga cgttttaaatt tgggcttcaa agattcaagc tcatccaaca cagctcgtga 120
tctctataac ggaaaaatga tagaaaagaa gaaaatgacc acatatcaaa tataacaaaa 180
tcaaataaaa gaataaaaca aacacacaca aaactatcat ataaagtggc atggaagttt 240
ctcgcttata tgctgctctt tcattgggca gngaagcttg ataatctcga tgatatggta 300
tagtttcaga aatcaaactt taagaaaaaa taccaatagt tggcacagtg aggaaaaaat 360
gaagatgcca tactcaattt aattgcnhnc tgacgagtcc accatagaga aaatccatta 420
cgctttcata 430
```

<210> 4184
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4184

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tagaaacatc ttcaaatttg tctaaatatt attacaactc ataaccaatc catattcaaa 60
acgacaaaag cttccaaaga gctcataaca ttntaagttc gttctcaata tcattctagc 120
tcggaaccaa tacatattca aaacaacaaa gtatttcaaa tcatcaaaac agaaaatagt 180
tccaaatgaa ccaagtttaa taaaaatcat catcttcaag gcgggagatt gcaacagaag 240
taacgtcagt tatcaatggg tctgtcgggt cacctatatt gaaaaataaa agttagaata 300
taaatattta acttgacaaa attaattcaa tctttaaaaa gaataccttc atcatcaaac 360
tccatttcag tgagtaaaat agcattttca tttccaca 399
```

<210> 4185
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4185

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agctngaagt gagaaagtgt ggaagagtca gtcttcctac ttttatttgt tgaccacaga 60
gtggtacctg gagatatgtc gcggnggtca ggagaccttg gggacgtcag gtgggggtgct 120
```


actgccccaa accaagcttg atcaatcccc acccaacccg ggcatagtta gtcagtgaga 180
acctgtgacg tacctaaaca ggcgagctcc cggaagtcaa ccaataaaag aataaagacc 240
acaaagcaag gaggcttgtg tgggtggctgg ccagctatgg atcttgagtg atatctggaa 300
tatggcctct agtaatcgat taccaagggt gtgtaatcga ttacaaggct tagaaatgga 360
tacaggaagt tgagatggcc tctgataatc gattaccaag ggggtgtaatc gattaccagg 420
cttaaaaatg gaaatgggat gttgaggtgg cctctggtaa tcaattacca gt 472

<210> 4186
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4186

ttttgtcatc acctaaanna accattttta aggtccaacg tcttgaaatg gtcccttttt 60
cttttattgg ttagacatgg atttaaaaag cttaaaaaaa acaacacata gctntgtcac 120
ctctttcaaa aaaccaagag atcattaatg gtccaatgcc ttaatgtttt ctctcctttc 180
aaaagaattg aaagatcggt tagtgatcca acgccttata atgacctttc attcaacata 240
aatatatctt gcaaaaaaag gataaagaca acttaaccaa cggttcaattc tcaaagaact 300
acgtaggtct gatttcctta tcacaattga ggaatacgta ggagcaaggg aaacaccctt 360
gtcgaccaca aaaagataaa aaatataaaa aggcataaaa agacataaga atgtaaaaaa 420
ggggaagata aatcaaaatg aagtcattt cgca 456

<210> 4187
<211> 467
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4187

agctntagca caatggcaag gttactttct tatgagttac taattcaatt cttaaccccc 60
actatgtaag agccttgtcc attgggtcac ctctttttta ttttgtaaca tttatattaa 120
taaagcaaag tatgatacat agtaggaaca caataatata caaaagttaa ataatatatt 180
ttatcgctca atatataatt cgctgataaa tgaatccttg aacgatgaat atataaaatt 240

tagtcctaa aagtataaat agtgtgaaaa gtaagtaatc gacaacgtga ccatgctgat 300
tagatttgat gaaaatgtca acaagataca acgtaaatgt taatcattnt ttgggtggaca 360
aaaaatgtca atattttctta ttgaagataa tatcagtaat ttgttattta cctaaatgtc 420
aatacatttc attggatcaa aatatcaata cgttatcatt attggac 467

<210> 4188
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4188

tcagggtcat angttttaag gtttcactca tcaataattg atgtgtggng agcttagcaa 60
tggcgtccgc caagtgattt gaagaagcct tcaacctggt tgattccgcc attgaagaac 120
aacgagagca ccaatgttat tccgccattg aagaacaacg agagcaccaa tgtaggaaa 180
ggcagaggaa agggggatag ggaaagggtc tggacttcta gggacagtac ctcaaagca 240
caaacttgga taaggatatt ctcatatctg ccctattaca taggagtctt tataaagtag 300
tgattcctat aacagaattt gtattcttgt gacaacatgg atcttaacag ataatagaat 360
caatggtaaa tgacacacaa tgtgaacact accgcactaa tgtcagctaa gcaactctctc 420
cttcttcctc tcataagaag tgaagactag aatattattt attgacta 468

<210> 4189
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4189

agctntagat agcttggtgt aatcgattac gacaaccctg taatcgatta aaacagagag 60
ttgtgcctct tgaagaaact cttctaactt ataaactttt cttcacacta atcatgatga 120
tgcgatgatgc aatacaaata tcaaatgtac taagatgcaa caaccaagat aacaaccaat 180
acaaatgcc acaagggat ttaggcattg aaaagtgaac acttcttcaa gcttttcttt 240
gagcttcaag ctttagcctt taggttggtc accatgttgc tccttctatc tctaactctg 300
cactccattc catcccacca tggttgctct taaccacgaa aaacgacttt gttatccttt 360

gtgtagacca agcaatgaag tacataaaat ttgngataaa tataacttgga cacctactta 420
gagagagaga gagagagaga gagagag 447

<210> 4190
<211> 452
<212> DNA
<213> Glycine max

<400> 4190

cctatcgccc ttagactaat ggctagattg aacggaccat tcagtcgctg gaggaccttt 60
tgagggcatg tgtcttagaa caaaagagga gttgggagag ttaaagacta ctcaaagtag 120
gcagaaaaac tatcaggctg ctcaagaaaa actgagaagg tcaagttaat ccaagaaagg 180
ctaaagactg ctcaaagtac gcagaagagc tatcatgaca agaggaggaa agacctgaaa 240
tttgagattg gtgatcatgt attcttgaga gtcattccat tgattgcgtt ggtcaagcat 300
tgaaatccca aaaactcata cctcgtttta tcaacccttg ttaaattctc aacagagtca 360
gtcctacggc ataccatatt gcattacctc tgtctctgta caatcttgac aatatctttc 420
atgtgtctca actcagtaat tatatctgtg at 452

<210> 4191
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4191

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60
ttaattcaat cttgaacatc ttgaacatcc tgattcaatc ttgaacatct tgaacatatt 120
gaactcattc tttgattatc atgaattgac ctttgagctt tntgtcatca cctttgttat 180
catcaaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240
agtaggatca aaagttattg tttatactga ccatgaaccc attaagtacc tgttgaataa 300
agctgattcc aagcccagat taatcagatg aattttgtcg ctttaagaat ttgatctggg 360
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420
tgaggagggtg actttganag agctag 446

<210> 4192
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4192

tagcaacagc cnncataacc caattttgtc gaaaccaagt gtcattgatt ctatattacc 60
 aattntgcta gctgttgatg ttgcatcata gttttgctat gtcattctacc tttgggtctca 120
 tctctttacc ttacaattca ggcaattcta tcattaccct ttttcaatat atagaattgg 180
 caacatgcaa acatatctaa tccaggaaat tccaccacta atagtcagcc tataatccat 240
 aaccaatgaa gtcccccatc tccaatttat tccatcttct aattttattg tagtttctgc 300
 agatttaaaa taagcgtttg gttcttcgtt ttaacataaa tctattgttt agtttataat 360
 tcaccaatt ctgccttttag tcattttcaa catgcagAAC tatcaaatg canagagatc 420
 tgattataca aaagccagga tcaacagana acgtattatg caaca 465

<210> 4193
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4193

agcgttgtgt ggggagattc acataatcat cgtaagagtc atagagtggc tcggaaggag 60
 ctatgtatgc ccaagggcac tggaggcttg tgctttaaag aatccataaa tttcaattta 120
 accttcttga tgaagagcgg gcggagctta tggtcgaata cgatgcgttg cgggtcacia 180
 taatcagaga aaagtatcac tgtggagaat ctttgatccc agatattgat tgtaataggc 240
 ttgagactaa tttctgggtg ggcctttgta anacctggcc tgagggtacac aagaaccttt 300
 gctgaaatac tgtggatggg aacaatgtta gagtttctgg gagagcgttt ggcgtccttc 360
 tcaacgtagg ctttaatttg gacaaagcaa ttttcctcta gacgtatgga gcatatgaat 420
 taatatgtgc gtgagtatgt tgataatcat gggaactata acttaccgc 469

<210> 4194
 <211> 407
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4194

tcctaaatgg catatctcat ttcctcaagc tntgggtggaa actctccctc ttcataattt 60
tgatcataac cccatgttat taagctactt taaatctcat tccaagaagt tgagatcctt 120
tcaatttcaa ggaacttgga tgtcccatcc agattactca ccactagttc gaaacacttg 180
gcaagatgca aaggggtcta tcccttataa actgctgctg attcagatga aatccaagga 240
gtttaatgag aagggtgttc ggaatatttt tcgtaacaag aagaagcttg aatcccatat 300
taaaggtgtt caccaacagc ttgagtggag gcaggatcat tctcttatta tgttggaana 360
gatcttcaaa gtcaatataa taatatccta gcccaagagg agttatt 407

<210> 4195

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4195

agctagagcc tacnagtcca aaggaataat agttgttctt cacagagaga ctctaattgt 60
tgtcatatta ctggcgcagt attaactatg ggcttaacat tctacagggc attcaaatg 120
agaacaaata cttacaaaaa ccactgaagg caatttaata ttagaagtta caaagataaa 180
cctttctcca tcatattttg cggagagata ttgcattact actggtatgc atctagtttc 240
tttaccttgt catgagatgg gcaactgcga aaaggcgctc taaaataaat atgacatgac 300
cccccttttg ccattgacc tgcattgtat tagattattt tcaaggatag accttattgg 360
tggagggcat ttgtaatccc tgc 383

<210> 4196

<211> 459

<212> DNA

<213> Glycine max

<400> 4196

gacactatga atactcagct ttaggctag atatgaactg ttggactctg ttaacactgt 60
gtcgtgtgtg gagcattctg gacatacacg cacactttct gattcatgct cttatgcaca 120

cacacacaga gagattcggt ctctcgtcag aaacactacg catacgaaca ggcagacgct 180
cacgctgaga acctgtaaca cagacacttg tcagactcac gcacttacac agacaccaca 240
gactgactat gacctattca gagacaagcg cactcccaga tacacgcact ctgatagact 300
tagatggcag aacttttcac agaagcacac acacccacag attcactgtc acacagttgc 360
tgacacacag agaccatgcg ctcatccaca cttgtagaca cacacatata cacacgcaca 420
ctcacactga gaactagccc cagacacaca cacacgctg 459

<210> 4197
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4197

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tatatattca gacgctcgaa attgaatggt gaagctctga gcaaattcaa acgacaataa 120
ccttcttact cagatgtcgg atagagaccc gtaatataatt gagacgctcg aaatggaata 180
ccgaagctct gagcaaagtc aaacgacaat aactttttac tcggatgttc gattgagccc 240
cgtaatatat cgaaacgctc gaaattgaat gctgaagctc tgagcaaact caaacgacaa 300
taaatcttta ctcggatggc cgattgagtc tcgtaatata tcgagaagct cgaaatggaa 360
taccaaagct ctgagc 376

<210> 4198
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4198

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ctagtggagt tggcattggg gctgttttga tacaaaacaa aaggcctata gcttatttct 120
cggagaaatt gggaggagcc agattgaact attgcaccta tgacaaagag ttctatgcc 180
ttgtgagagc tcttgatcat tggaatcatt atttgcgttc taatcacttt atattgcatt 240
cagatcatga gtcattgaag tatatcaatg ggcagcagaa gttgagtcca aggcattgcta 300

aatgggttga atttcttcaa tcttttaatt tctcttcaaa atacaaggat ggtaagagta 360
 atgtggtggc tgatgcactc tcaaggaggt atgctttaat ttcaattctt gaaactcggt 420
 tacttggttc tgagactctg aaagattata t 451

<210> 4199
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4199

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 ccctgggatg ataagagcaa agaaataata aatttgga aa tctcttttgt tagctcacta 120
 aaaggtgata cttaaagca aacacttttc aagtttcaaa actgtatata aagaatgtat 180
 acttacagta ttctttgtca atacattaag tgaatcctca tgaaaccaca atcgactgcg 240
 cttcccaggt ttctttgttg aactttcacg aattatctct cttcccatgt ctcgtagtaa 300
 tggatgcatt ccaagtctgt tgttctttgc aacttttacg aggtacgct ccatgagaac 360
 tgttattcct atacagcat gtagtcaca gccatntagt atctctgtaa cataagctct 420
 atctttacca ataaagagac aacatacatc aag 453

<210> 4200
 <211> 364
 <212> DNA
 <213> Glycine max
 <400> 4200

agctcgatgc aatcctaccc tccatgggta ttgtatagaa gactccaaga ggattgagct 60
 agagctgcta aagaaggcct tggcgttctc atgaaccca aggtagattt ctgagcccat 120
 gggccatggt tgggtccact cttctttgta aatattagaa tatgtttttc cttcttttgg 180
 gccttgatt taggccattc tagtagtata ggattttagc cttgtctttc atggcaattt 240
 gagtagactt tgtagtaggg acttttattt ttcattgatt ttggcatggg ggcgagctta 300
 tctattatag ggagtgcgta actaagccct acctttttta ggaatcttcc caaggaatct 360
 tctt 364

<210> 4201
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4201

tactcattga ctataagcct ctcaatcatt ttcttaaaga tgataagttc cctatcccaa 60
 aggttcatc tttccccacc ttgataagag aatcaaactc attctcaaag aatgatttaa 120
 aatcagggtc tcggcaactt ggcctaaaac cacataatcg atacaaaaca gcacacctga 180
 tgccaaatgc tcaatatcaa tggacaggct tacctttagg cttaaaagta gcttcttctc 240
 tcttgcagaa agccatgacc aaaatctttg aacccattct ggaaaacact cttgtctaca 300
 tagatgacat tctcctttgt tcaaaagata ttgcctctca ctaaaaattg ttgaaccaat 360
 tctttgaaat agcacaccaa catgggatca tgcttt 396

<210> 4202
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4202

agctatgtga aactgccatg ttttgatgag ttatacatat ccattctggt gtacgcgttt 60
 tgtgatgatg attgcgatgt ttatcttctg acaataactga tggaaatctg ttagagacga 120
 aggggtcaaac taacctaagg ttacaaagtg agaatgtgat gttatgagtg gaaaaagagt 180
 gagactctga gagggtgaag gttaagtctg aattctgtgg taaatggagg taaaatgag 240
 ttaatcctag cttganatgt catttaagac atgtgagaaa ggtaggctg agctacagag 300
 attatcactt gaccaaagtg aacaaa 326

<210> 4203
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4203

tgtagaattc accccaattc tgggtgtccta tggatgaattg ctcccatatc tactcgataa 60
 ttcaatgggt gccataaccc caaccaaggt tctcaacct ccatttttcc gaggatacga 120

ctcgaacgca acatgtgttt gtcatagagg ggccccaggg aattccattg agcattgtag 180
gaccttgaag cataaggtgc aaggccta atgtagcgggc ttactgaaat ttgaggagaa 240
ttgcttgtga atcctgacat tcacaagaga tgccacacat ggngcaattt gaaggttggt 300
gttagatgtc tcta atgact cattatgatt ttcaagttta ttccattatt gtaaaccata 360
gttacaattc taaataatat ggatgaattt gacatcgcta tctctcttat cctctca 417

<210> 4204
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4204

agcttgtctc agtgtttatg cgagacaaag' acca acatgt tagccatcgt cagcaagtac 60
caagaagaat taaatctagc cacggcccac gagcacatag tgacggacga gtatgccc aa 120
gtgtatgcgg aaaaggaggc tagaggaagg gtgatcgact tgttacatca agaggcaaca 180
atgtggatgg accgatttgc tcttactttg aatgggagtc aagaacttcc ccgattacta 240
gccaaggcca aagcaatggc ggacacctac tccgcccccg aggagatcca cggaattctc 300
agctattgtc agcatatgat agacttaatg gccatataa ttagaaaccg ctaggaagtt 360
tgtattgtta ctcagatctt gactagntat aactttctga ataaaat 407

<210> 4205
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4205

ntgngagaat gcataccctg atcaaaatnt gatgtgtcct cctccagaaa aggttaacac 60
aaaagggtgca tcgaagaaac tgattaacag aaacccaagg tcaacaaagc gtgatccatc 120
ttactaggag tatgtagatg ttttttattc tcagcaaaat agcaattcgt cagtgaagca 180
tagtgcacat tcttctaagc agcccaatcc aagaaggatc atgcctatct tggatcacat 240
ttagccattt atccatgact tcattgataa cattgttgat gtccaagcta atggaaacta 300
tgggtatcgg tcggttgtcg gtttattagg tatagggtgaa aactcttggt cggttggtccg 360

cacccatctg cttatagaac ttggcaaatt cttagaagac tatatcatat tc 412

<210> 4206
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 4206

agctcttggc ggattgaata gtgggtccaa agaatcttct ggtttagcct tgtgacaact 60
 ggaatcacct ataggctctg cactgtaggc tgagtaatca ccactgcttc ttgtgtgaca 120
 taaaaggagc tcctgcagca ctacttact gaccttctcg tttgtgagtc ttgacatcaa 180
 gaacaattaa atgcttgatt acaaccaaca tccctataac tgaagtgtga aacaacaact 240
 atcgtccatt aatttccata aattatcatg agaatcatct ctctctatcc ctttcaacac 300
 a 301

<210> 4207
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4207

tcatcccttg ataatgagga taggagattt gccctggatt cagctaggga ctactttcct 60
 tagcaccctt atgttcaata cgttcgataa ataaatcttn ttcttttgct atatgcatga 120
 gagtttcaat gctagtgtgc acacaaatgt gtgacaccct ctaccccgca catatatttt 180
 aatataggaa taaaaactca catattaatt aacagtattg ttaaattatt cttaaataca 240
 agcctttcaa atgggtaaca ggctcacatt cactttcttc tacatcatat tcaaacttgt 300
 ccatataaat aataaagtca tatcggtca aagaacgcca tctaagtatc atacaattaa 360
 tatagaaccc atatccta atgcacatctt atcagagcgt ggtgttcccg tgttctctag 420
 catgaggatc ttcatag 437

<210> 4208
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4208

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agcttgntcc ccatcaaaga taagacaaag tatataacaa gtacactccc cattctgcta 60
gctatcatgt ccacagaaat ccatatatgt caatagagat tgtaaagtaa taatcatatc 120
acaatatcac atgttatttg ctacggccta cgggaaagct cgagcgagca aacttgcttg 180
gtgagtaatg ctaactgttt gttgaaaacg cccaagtaat tcattacatt nttacatcac 240
ttgacaagga gtttcggatc aatgtctttt gttttgcgtg atagcacgga tgcagatcaa 300
cttggaact acttcaaaaa tcaaacgtg aatgataata accaaataaa taagtggata 360
aactctgcaa atgcaggggtg ttgcaaattg catgaagccc aagtactgga cttggaagtt 420
tattgttttt cttcaatcaa ttgataacat gagcattccn ccttcatctg gagttca 477
```

<210> 4209
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4209

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actatgaaac tcagctgata gatttanacc acacctttat ctctatagta ctttataatt 60
gaagaataca cattcgttta tttattatctt attattttta aatgataaca aaattgaata 120
aaagtgagtt tattctttat tcgttgcaag tgtaattttt ttatattgtc aagtaactag 180
aatcatgtt agatattatt tttaagatca ttttataaaa ttcaagaaac ttattttaatc 240
tataattgaa taattctgta aattttaaatt aaactttaaa agtaattata aacattcaat 300
agataattta acttcaaacc ataattatga atgcctcctt ttcataacta taagatgttt 360
tagctntatt tcttatctta naataattga tattntagaa attcanaatt taattaatat 420
ttttccaat tatatcctta tttattatct cattattaat g 461
```

<210> 4210
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4210

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agcttatcta acaagatata aaatacatag ctctgtctta ttattgtcta aagcgtttct 60
```

ttataataca caaaaacagt tctctgcttt ttttagacac aaattctatc tggttctcaa 120
 aaaatcactt ctttaaaca cacttttttc tgaatcactt ttttgaacgt taaacatact 180
 gttccataaa caatctcaga aatgataagt tcaatccaat tatacaccca cagagacagt 240
 ggattagtga atcttttnaaa caagttacat gcaacacatg tccacagaaa aaaacacaac 300
 taagttaaac taaataccat tctactactg aggaattgat acagctctat cttcaccata 360
 taatcgccgt tgcgttttta gcgatgttca caatactggc atgacgggtga tcagagaatt 420
 tcaaactata cccgaacaca 440

<210> 4211
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 4211
 aagtccaacg cagcacgcgt gtcgttaaag ttgttatatg ttatgctttg aaggagatga 60
 acgtggagtg tagttaccac tgtactctac tctagcagtg gttgtggtgt tatcaaaggc 120
 aacaccaaca ccacttgaat atgctcttgc agcaagacac ccatgattag gttcttggtt 180
 ggcatgcaat aacacataca ttggtcgtcc cggatgatatg caaatgtatt cccttgccaa 240
 tggcttggtt aacataccat cagcaccaac aacagcgagg ttgtgttctg tatcatagaa 300
 caagagaatg agattcattg ccgcattgtc tacacggaga taataagtcc tgccttgctc 360
 tacatgaaac tc 372

<210> 4212
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4212
 agcttaagga tttcanattc tgctgacaa ataataaatt aggttntatt gttagtaaat 60
 tataaatttt ggctactaaa caaatcaaa gaagaaaaca aacatacctg aatatacctcc 120
 tatatcaaat tcttgcatcc cgtatacaaa ggcttctttg aatcactctg caatccttca 180
 tacatagggg catgtgcttg ctaaaaagac tcttgtccaa ggtcacgaat catatacctcc 240

aagcgatctc ctatttctac atcaaacggt tcagattggg acccactttg catgtctatc 300
aattcaccat gccatatcca cgtcgtgtaa ttcttcttaa tcccatcaca caatagatgc 360
tcccacatgc cgtccagtag ttgttgtctt ccattcaaac aattgatgca aggacaataa 420
tgttttccat cttcatccga tcgacctctt aatgaagtaa attaca 466

<210> 4213
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4213

ggatggagaa tatgggtcca tacttgtcag ccaagtcacc caatgttnta tgaggtgtct 60
ttgaaccaag caacaatggg aggtgaccaa ttattggcca cgcacctgca actgtgggag 120
gacctcttc gccactcttc gaggaacgac gacacaaaaa caagtataag aggatcagag 180
aaacaacacc aactccaatt gttgtggtgt ttagaactaa gtccattntg acttggtttt 240
gtgttggtgc atgcagatcc tcatcagttt aaataggaac tgcaccgtgc atctgtgtgc 300
cgttgtagca cctgactaga tcgagtagag atatttagat attntaatat tntagaatat 360
attcattact tgaattaact aanaaataaa ataatgttgc tgaaatgatg aaataatata 420
gccaaataaa atcttgatat tntaagatat nntttaattt tatattaca 469

<210> 4214
<211> 459
<212> DNA
<213> Glycine max

<400> 4214

agcttgtaat gaagatgaac ataaacttag gatcacttat ttctggtcag atttcactca 60
ttgtcaatc caactccttg cggttggat ttccaaccct gattactgcc ttgtgcaagg 120
cccgaggagt cacctcagat tctcttacct tcgagtcact cagcctagcc attaatttgg 180
cctatattaa gaagaattgt tggaacctgg atgacccttt tgtcactttt ccaaggaccc 240
aaaaatccag ggctagaaaa tctgaggacc catctctctc tgctccccct acttctgctc 300
ttccttcacc accagcagct ccaattcttt caggtccctc cacttggagc tcagagcctt 360
tcatgtttat gctacagagc ctgcaccagg gccagctcct gattatgcat agcttgcagg 420

atgtggccca gcagtggcca gttatgagcc tggaggagt

459

<210> 4215
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4215

taacgtctnt cacagtanaa ggaccactcc atctctcaat tntaattntc caggaaacaa 60
ctttagtntt aagttgtaga gcaatacttg ttgtctggga ctaaattctt tgtggaggat 120
ctttttgtca tgggtccctct tataatccct gaacacttta aacttggagc caaacaggta 180
atgcctccac atcttaaggg caaaaactac agtagccaac tccagatcaa ggggtgggata 240
attcctctca tgagtcttga gttgtctaga agaataggcc actccttggc cattttgcat 300
caacactcct cctaaacgca tctttgatgc atcacaatac acctcaaggn gttctcttgg 360
gttaggcaaa actagcatgg gagcggccgt caacttttcc ttaagggttt ggaaactatg 420
ctcacattag gtatcccaca caaaagcttg acccttacga gtttag 465

<210> 4216
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4216

gcttgaggat tatggngtac ccatcacatg tgggtactatg tggcgggtcgg gcgatggtgc 60
acaacaagtt ttccacatcc acaatgcgcg cataaaccca ccatcccttg ttaccacct 120
ccatctgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgagtcc 180
ccatcaatcc tcccaagctt ccacaacatc caagcagaac aacattcaaa cagcacaagc 240
tatcacagcc aagcaaaaca gagcanagcc agaaaactct gctcaacaca ccaacaaaat 300
cacagctttt ctacttaaa gaccccgagta acaattcctt cgatccaatt cgttaaccat 360
tggatcgact ccaaaatfff actggaagtc tatagtacat aagcctacat tgtgacgcgt 420
gggatctact agaaaacatn cagaactcat tctgcact 458

<210> 4217
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4217

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agatggacca tttcaagtga aagaatcaat gacaatgctt acaaagttga gctgcctggt   60
gagtataatg tttgttctac cttcaatgtc tctgacttat ctctttttga tgtagatgaa  120
gaatccgatt tgaggaaaaa tccttctcaa gagggagaga atgatgagga catgactagg  180
agcatgggca aggatccact tgaaggactt ggaggaccta tgacaagggc tagagtaagg  240
aaagccaagg aagctcttca acaagtgttg tccatactat ttgaatacaa gccaagttt  300
caaggagaaa agtccaaggt tgtgagttgt atcatggccc acatggagga ggactaaatg  360
gcaccacttt gtctcaattn tagagtgggt agtttgtcta aataatggcc caatccttgt  420
aatgttggct gacaaaaaat atgttttggg ttaatc                               456

```

<210> 4218
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4218

```

agcttctagt ctntaggttt ctattgttta tggatgaatct gttcttttga aaatactttc   60
acattctgac gtcaatcttt ttctgagata tctgtatct tcattaaatt taagtccatt  120
catttggtgt gttggggtgt cctgggtctgg tttctgtcca tttgtcctac ctttttctgg  180
tacaatagat gcatgtaggt gtgtaggata attataatca tcttgcccct attgcctggt  240
ttgttctttt tcttcatgac tttnttctct ttctgttca atcttgtgat atttgcagat  300
aatttgtttt ctctctttcc aaaggggtatt atgcactttc tgcanacatt nttctatgcn  360
tagcgtttta accatttaca ttntgcatgt ttagtttata ggggcaacaa tgggtgtcttc  420
agaattgcag atacanactg ataatgggtct aattggcatg c                               461

```

<210> 4219
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4219

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gggaattcaa gtaacctcta gttgtctttt tttatttgtg tttgtatata taaataataa   60
ataataataa tagttaaaca tcgcctttct tttctcttca cttgaagaca tatcanagtc  120
atataggtgg attattatat ttatccgata accacaaaag taggtattaa tatgataaag  180
cagaaggaat taattgccaa atcttaatca aagtattgat acgtattaac ccccttcca  240
aagcatgttt aagatattgg tgtggaaaac aaaaaacaaa atacatgttt aattcaaaaa  300
aataattntg cgacaaaaat aattntgtta aagaattaaa actcatacaa cattntaaac  360
ttcaatccaa aaatctacaa aagaagacaa ggngcacaaa ggtagctgtg gctatcagtc  420
ttacaaggga tgttcatata aacactgagc ctttctcggg                          460

```

<210> 4220
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4220

```

agcattgtcc ccaattttct ataaacaggn ggagaagtga agtaganaac ggttcagccc   60
cttaggcact tctctctctt tcgaatttgc ttaggaaaat tgtttttgtg aagaaaatcc  120
aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct  180
tcgacgttct tcatcgttct tcagtcttca acgggtaagt acctcaaac aagcttttca  240
attcattcta tgtaccgtg gtgggtccaaa tttggtttca tgtattttta gtctcgttnt  300
catttacttt ttatacccn ctttgacgtg ctttaagccat ttatttaagt catttctcgc  360
ttaacctana aataacataa atntccaccg atcatttgaa ttgtatcatc cgttaacttt  420
ggttgaaaaa attccgaccg atcggtcgtg ccgcaaccac attgga                      466

```

<210> 4221
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4221

tgtaggcgtt ggatcttctt catcaatgga gtcattggct tcttgaagat catggcagcg 60
 gaatagagaa ggaagaaaga tgattggaga cccacttca aggagatgat gagtcaagaa 120
 gaagctcacc accacaggaa gccatggata agagcttgaa ggaaggcgaa gatgagtgga 180
 gggagaggga gagaaggggc acgaaattnt atgcctcaaa tgaggtctga actttgaagt 240
 gtaattctca aatgatcaaa gttcaaaaaa tgcacacaca tggcctctat ttatagccta 300
 agtgtcacac aaaattggag agaaatttga atttctattc aaatttcact tgaatttgaa 360
 attgaatttg tggagccaaa atttcaataa ttatgattaa tgaattttag atatggttca 420
 gccactaat ccaagatcaa gtccaagat 449

<210> 4222
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 4222
 agcttctaag gaagctgtct cattatagct tctcaaggaa gctacctagt ctataaatag 60
 aagcatgtgt aacactcggt gtaactttga cgaacgagag tcttgtgaga cacaactcaa 120
 aggtcaacct ctctcccttt atcttccttc aatttcgcgc tccccctct ctctttctct 180
 cgctctgtct ttgcctccat tgaagcatcc tctccaagct atcttataca aggctcatct 240
 tggcggagaa gctctttctt ccatggctta ttccttaatg gatgggcgct cctctcacct 300
 cttttccttt gtcttccgct gcctctccat gagggacaat caccattaga ggacc 355

<210> 4223
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4223
 atgcttcaat ggaggacaaa aatgagagag aaagagaaag gcgggagcat aaaattaaag 60
 gaggataagg gggagagaag atgaactttg agttgtgtct cacaagactc tcattcatca 120
 aagttacaac aagtgttaca tatacttcta tatataacct aggtagcttc cttgaaaaac 180
 ttccttgaga agtttctttg agaagcttct ttgagaagtt agagttagc tacacacact 240
 cttctaataa ctaagctcac ctcttgaga agcttccttg aaaaacttct ttgagaagct 300

tccttgagaa gatttataga gaagttagag cttaactaaa cacaccctc taatagttaa 360
 gctcacctnc ttgagatgag aagctagagc ttaactacac acaactccta taatagctaa 420
 attcatccca tgccaaaata catgaaaa 448

<210> 4224
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4224

agcttgctca gattccacat atcctgtgac tggtaaaaca acagctgggt tagtgacgga 60
 agaatagtcc atagttaagg attcaactat atataggaac gtcaagttgt tgactttgaa 120
 cttgatagtt tatagtttgg aacgacctat gtctagttaa tggcccagag gctaataatta 180
 aagacattga ctaaatacagg agtcttaaaa attattatatt tttaaatcta aacatattct 240
 cactatTTTT tttttttact tacgctatcc attttatttg gtcaattctt acttggtcga 300
 agcactcatt ggagcatttt attaatgtta tcctctcttt tctcttaaca tcaggcatat 360
 ataatccata tccttctctc atattctttc 390

<210> 4225
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4225

nttataanaa gcattttctaa gcataaaaact aaaatatgtt gtattgagct cttggtattt 60
 tttttatgat aacatttttta attatgagta taattttata attattaaaa gccatcagtt 120
 tttttttaaa taataatttg ttcacatttt gttcaaataa acttaatgta agttctctga 180
 atttattgca ttctggcgac tgaaattcac aatcaaaaact taaagtgtgc tgaataaaaag 240
 tttttcatag atgtaatcta gtaaaataat gtttcataaa taattaggtg tctaatagaa 300
 gaataaagtt aatacaactg ttctcgaaat taaagtagaa tcgatacatt cacagatgtg 360
 tatacataat aatgggtgtag tattcaatac atattgtttt gctttactgt cgaactatgg 420
 aattccatat acat 434

<210> 4226
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4226

tggagggagg tccctcactc gtatctgtca ggtgatagtg gcacccataa gaaagtatca 60
 tgttgaagca cctgatgaca agtctctttt atatgagatt acatatacca tcaactatct 120
 tatcaaaata tggcaatcct gtagtcatta attctccaat ccttcagtta gggtataata 180
 tctgaaatgc tagctaggac cagattcttc aactcaaggg gaatatgata atgtggaatt 240
 cattntaaga atgcttcgtg cattcgtcac tggcatcaca ttattggaat gccgttgatg 300
 atgccgtaca gtagcataaa ttaactaacg ctagcagaat ttcacgtaat attctaatta 360
 cacagtttta ccttagntta aatttcaaga gagctctctc tgngttctca agcatat 417

<210> 4227
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4227

agcttcttat acaaggctca tcttgggtggc gaagactctt cttccatggc ttattcccta 60
 gaggatggcg cctactctcc cctcttctac tttgtcttcc gctacatctg catggtggaa 120
 aatcaccatt aaaggacctc attgaagctt aaagatccag cctccataga agccccacaa 180
 acaagggtgtc catcagtaat gtcttacgca agatataaag gttgaaacat attgaggaag 240
 aagtggtttc tgttctcaca cccagcatga agacaaccat gagttacagt gggagggaca 300
 agattgagac tctagagcac gcgacgtttg tgaggccata tgcttactat atg 353

<210> 4228
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4228

tcatggtgaa tcataggtga ttcataggtg tctcgatgat aacaatgatg acaacaaaag 60
 atgatgactg aggtgatgaa cataaagctc aaagatcaat cagagaacaa ctcacgtgaa 120

tcaaagaaca tctcatatga atcaagaaca agtcaagagt tcaagataag aatcgagaag 180
aattcaagac tcaagaagac agtctagagt caagaatcaa gattcaaggt tcaagatctc 240
gagaatcagg actcacagat tcaagaatag agagaaaact taatcaagat aagtattaga 300
aagttgttca aaactttgaa tagcacatga gttcttgcaa aaccttttac tagaggttgt 360
actctctggt aatc 374

<210> 4229
<211> 330
<212> DNA
<213> Glycine max

<400> 4229

agcttgagct ttgaattgag tgtcattgtc agtggcaatg gcgtaaagaa gaccatattt 60
tcatatgaag ggtttgcagt agaacttctc tacctcatct ggtgaaattt ctgcgaatgg 120
tcttgcctta atccacttag tgaaataatc aatagcgact aataagaatt tgacctatcc 180
tgcggctttt gccaatggtc ctagtatatc catccccac atggaaaaag ggccagggtcc 240
tagtatgacc aataagaatg taccctttgg ctgcgtcacg tagctcgtcc atgctgctag 300
ggggtttctt gcatatacta tcagggaact 330

<210> 4230
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4230

cgctctata gctagccatc acaagaagat catattnttc aattgacgtg ttatccacat 60
cacattctac acggtctcac catgaataaa aagggaatg gntatttctt ctcttccat 120
actcaciaac aaacatgatt ntacaagcat caaactcaac ttatgaaaac atgtgcatca 180
tgcaccacia cagcacatca caatccacia caatgccttg aagcattctc acctattcca 240
cgaattggat tcatgcccc aacatgttt tattgcatgt tatgttatcc ttcctttct 300
caatattatg cggagtttat catgactcat attc 334

<210> 4231

<211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4231

agctnntgcg tttcctcatg catttcatta aaggcttcca aaacttcctc aaattcagag 60
 ttacactgaa gtaattatca cagcatcaca atcataatct cgttctatct gcaatcaaaa 120
 tggtatgctc tattcctaga aacataatgt aaagagtaaa ttcattcagt tcaaattcta 180
 agagtacttt ccaatcaaaa ttaaaatcca atttcatgaa acttgatgat aaatagaatc 240
 aaacattaag aatagaatga aatcaccaat aatgagtata aaatattcat acatatatat 300
 aatatcaaaa gagatacata agggtagaaa gattacatcc aatccttttag agaaactaac 360
 cgatcattgc atagagtaca agatcaaaa gagaaatgat gaaggatgag atccatgggt 420
 acaactctgt aacacctggg ctccactntg tgctttcttc ttccttctat g 471

<210> 4232
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 4232

tagccaattc tactgcctgg ggcaaagaca atgggtcaaag tgctggactt cgcgatggag 60
 ctctggattc aggccagaca caaagccctt gacaatctcc attgataggc aactaaatac 120
 atgcaactgg aggagctcac caagtacaac cggcagttga ggaatgaagc atccgactca 180
 aagaaggagt tagaaaggga tgcccaaaaa ggaaaaagaa catgcacgca agactagagg 240
 acctttctac aactattaca ctccccttaa tgatagccaa tcaaggatct tggaacaagc 300
 ccttgctact gaatttttca tgatgccaaa gcaggctaac cccccctaag agccaaccac 360
 tcaaagcatt ttgatacca taggaattgg ggtcattcct cagaagaatg cataacacat 420
 aaatacaaga ttaaggatct aattaaaaaa acatgcctaa aggatttcaa t 471

<210> 4233
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 4233

agcttattta aaaaaatata aaataaatag ctgtttctta agattgtcta cagtgttttt 60
 ttataataaa aaaaaacagt tttctgcttt atttacaagc aaattctatc tggttctcac 120
 aaaatcactt ttttaacaa cacttttttc ggaatcactt ttttgaagtt taaacaaact 180
 ggtccataaa caatctcaga aatgaaaagt tcaatccaat tatacaccaa gagagacagc 240
 ggattagtga atctttttaa caagttacat gcaacacatg tccacagaaa aaaacacaac 300
 taaattaaac taaataccat tcaactagtg aggaattgat acagctttat tctcaccata 360
 taattgcagt tgtgtattta gtgatgtttc caataaggta atgaggggtga tcagagaagt 420
 ccacactaga cccgaacaca attt 444

<210> 4234
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 4234

ctcagcttga atgaagtcca acgcagcacg cgtgtcgtta aagttgggaa ggtaggcaa 60
 tgaaggagat gaacgtggag tgtagtttcc actgtacttt actctagcag aggttgtgga 120
 gttatcaaag gcaacaccaa caccacttga atatgctctt gcagcacgat agtaatgatt 180
 aagttcttgg ttggcatgca ataacacatc cattgtttgt cccggtgata tgcaaagtga 240
 ttcccttgcc aatggcttgg ttaacatacc atcagcacca acaacagtga ggttgtgttt 300
 tgaaacagag aagaagagaa tgagattcat tgccgcattg acaacacgga gaagataagt 360
 cctgccttgc tctacatgaa actcgaacgt ttctgaaaat taaaagaaag ttttgtgttt 420
 agatgagctt aacctcatag atac 444

<210> 4235
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4235

agcttgtggt gcacgatggt tccttcaagg agatcttctg ccttccacag ctganagtat 60
 tatgcttgga accccttggga gaactcattt ccattggatt aaagaactct tggattgagc 120

ccttcctacg aaatctagaa accttggaag taatgagttc ttttagttcc ataaacttgg 180
taccacacac agtgtctttc tccaatatga cgtatttgga aataagcagc tgcaatagcc 240
tggtatattt gttcacatcc tcaacagcca caagtttggg tcaactcaaa agaattggaga 300
taaaatgctg caattcaatt gaagagatag tgtctaagga ggggggtgaa tcacatgagg 360
atgagatagt atttcagcag ctaaattggg tgaatctttg ctaattacaa aacctcaaaa 420
gtttctacat agggagttta agttcccatc cttggacaat tgtcaataac c 471

<210> 4236
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4236

tctaagctta cctacgctng agtgaatggg agtaagccaa gatcttaaag tggagatgaa 60
ggaatgtaga agctctttgt cttggagtct cgaaagcaag aaaatgagaa gataaatgac 120
aattgttaat gaaaatcggt aatagttctt taaaagagtt tatacctatt aaacactaat 180
ttttactagt gattttatta actaataaat atttaagaga tttacttaat tattaataaa 240
aataataata ataatttcaa taataacgac cattataata actttttata taaaagattt 300
atgtaataat ttcaataaaa atagcaattc ttgatgataa taattttgat gataaattca 360
ataatgcatt cgataacaat gttaatagta atttcaatag cactaaacaa tgaagattga 420
ataaaaataa tgtttagaac agaaatggag attaacaaga gatgtgagtt tatag 475

<210> 4237
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4237

agctntaagc atacatgaaa tacaggcgcc aatcttgttt tctatccaaa ctcacgcact 60
tgcattgtgt gattctaaac agtaattaat gttggttctt ttatgtatcg aaactgttag 120
gagagagaaa acacctcacc acttgaagga ttatgtttta gggatttttg cacaagttca 180
tttatttggt agcgcagtag tgcattagga taattctggt agtgttccct ctgcttgcc 240

agaggattct gttggtggct gttgtcctat agtgagcaca tataactata tatatgcagn 300
gtattgacag aagggaaata agaagaatat aagcaaagtt ttctctctat gtcttaagct 360
tttctactct cttctctctg cttctgcatt ctgcatttct gcttctattc aagttcttaa 420
catttggggc tttcattgag ctcccatggc ggaacctgac cgatggaacc 470

<210> 4238
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4238

ntgtccgcaa atccctcatg taagactagg cctaaactaa acagcattat tgtaacagca 60
taattaaaac caaaacttaa ctgcagaat cctcatgtaa agctaagttt caatcctgct 120
tcaatcaaat tctaaggcaa cagtacattt ctcgatgcta aagtcaccta actgtgcaca 180
caaatgggtg atcagaccca aaacatacaa atattaagca ttgaaggaag cattgaacat 240
taaaacataa tcaattagat attaggtatt tacatcagtt ggtcattaga aatccccaac 300
tagggtgggt agccagccac taaaagaaa ccctaaccat aaatgagatt aaaagcagag 360
aatga 365

<210> 4239
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4239

tctgagtcac ctgccgcatg caagcttgga ctcttgga aa ttctttgcac tagtcaactct 60
tacagttgtg acgtttgaat aaatctacag aaacaagtca cttatagaat tgtgacttct 120
ggaaatatat tctgtgagat tagtcactgg tgatcgatta ccattaaggt gtgatcgagt 180
acacatcaac agatgtgact tttcattttg aatgttgaan aattaaaaca tttagaagct 240
ctggtaatca attacaagta ttgtgtaatc gattacacaa gtctaaaata ctgtaagact 300
atctaaacat aagttataac tcttgaaatt gaaatcttaa cgttttaaaa cattggtaat 360
cgattac 367

<210> 4240
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 4240

ctaagattag cctgtaggca atttcttagt gcgctaaaaa ttcaattcat cactcatgcc 60
 aaatattagc agagagcatc agaccggtca actatgataa gaaacagcac agtagacaat 120
 ctgcttcatt tccttaaaca gcaaccgctc gatgaagcaa acctcctgca tacaaccatc 180
 tttagttgca cttacttggg acattaaaat actcagacca agaaaattga aatgcattag 240
 tctttgcaat ttgtattgca ccatacttaa ggatttccat gtgaatagtt tataccataa 300
 cacagattat gctgaccaa ttgaccaag tatacacaca agacttcaat aaagtgatta 360
 caccaactca cttatcatca tcttaaaatg aataatcctt cacatcagat cttgaatcac 420
 cca 423

<210> 4241
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4241

ggatcttaag cacctgcagc tgcagctttt atccaggaaa ttcttggtggg cgaagctcct 60
 tcttccttgg cttattccct agtggatggg gcctcccctc tctcttctc ctttgctta 120
 cgctgcatct ccatggtgaa aaatcaccat tgaaggacct cattggagct caaagatcca 180
 gcctccatag aatcttcaca agcaagcttc catcacattg gaccattaat gatcttttta 240
 tctttggaag aggtaataaa gctacgtggg tattctaggc cttctttaga aatctatgct 300
 taaacaataa aggtggaaaa gaccatttta aggcaactgga ccttnaaaca tggctctttg 360
 gtgatgaaaa acactttgct tatgaattga ttttagcctt agcttcactg tggttatta 419

<210> 4242
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4242

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cgganaagtt gtttagctcc attnttagaa acgttgngct tcttgttttc tcttttttcg 120
tgcgacattg cctctgggtc gtaggggtag cagcgttgag cacagcggg aaggtgaagg 180
tactggcgtc gagcgttgcg gtggtcgggtg ggggcaaacg aggtacgcag atgggtggttt 240
gactgttgcg gacgtacgga tgagttccgg atcaacttga tccgtaagct tttttcagat 300
caacttgatc cagaagctgc ttaataatct tctggatcaa gttgatctgt aagagacttt 360
cggatcaact tgatcccttg atccggaaga gtattaagca gcttccggat caaantgatt 420
caaaaaagtc ttatgga 437

<210> 4243

<211> 394

<212> DNA

<213> Glycine max

<400> 4243

agctagtaga atggctagac atgatacatg tcaaggtttg gtttggttca aggataaaaag 60
ggatgcccc aattatttcc atgacacaaa tgcaacaatg atgatttgga aattttatgc 120
aaaactggtc atgcatgcac ctatgtggac actcaagtgt caaattttta tggatcatgtg 180
atgctagggc tcaagattca tttcctctac tttagtccac ccaaagtttc caaatatgt 240
tcttttatca atttgtgcat tcatccgagt ccattatgag cgtccgggaa aattttcaca 300
gcattcacc ttcaggtgta cacacacatt atccaaaaat atgggatgat cagtgaattg 360
tttcagagaa taggtggaga tcatctcttt tcat 394

<210> 4244

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4244

ttcaacaaga gtcttcacat ataaccatca tgaagcagat atctaacaaa actaccatc 60
atatctccca aaaccccata cccacgaaat ttaagagaga aagaagtnca cccagacctg 120
aattttcgaa gtcccacttg gaatcacgca ctttacgaca tgcgaaaggc tctggttgct 180

gggctaggag canaaatgag caccacaggt tggagctctg ttgggggtttc aatggagaat 240
 ggaggagaag gaaaaagcac cgtgatgaag agggagagct tcttgaattt ctgttttggc 300
 tgagtgagga gagagaacag ctttttgggt taaataaaag gatttcctct tttcta 356

<210> 4245
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 4245

agctctacta cactaaccaa attccgaatg tatgatacga tggatgcata cttatattac 60
 tatttacaaa cacaactgaa atttaaagca accactacta gtccaggatc tatactattg 120
 caatttccaa ctgttagttt attagtggct aaaagagtag gtaaaagtta accagactaa 180
 ttaaataata atatgccctg tttctatata ttgttaccat aaatatattt aaaaaatcag 240
 accaggctta ttgctttaag tttttcacta tatataaatt cataatgaaa tgtatatttg 300
 ataatatatg ctctaaaatt tagatattta tttattatta aattcttata tgatggatat 360
 attactacat ataaaattca ctataagaac tcagagtgcc ttccaaccac caattatttt 420
 atattgtaga atcg 434

<210> 4246
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 4246

ttagaccttt gatggcatgc tggcatcacc ctcatctttg ctcttgatcag cttcaaactt 60
 atcaattgct acctgcagtt catcagtgcc tccaacagcc ctcatgggtg agaagtatgc 120
 accaaagaca aaagctgtca aacccccagc aactaccaga ttctttgcct taggtggaag 180
 gctcctatat cctaaaagtc cagccatctt gatcaatgtg ggaaaaaagg gttagcacia 240
 tttcacacia ttacaattac ctttcaattg cagaaagcae aaaagatcac aaaacagata 300
 attcagatct gtaaagaata atgagtagac attttcacia acagatt 347

<210> 4247
 <211> 464

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4247

agctntaatg gtgttaagaa gaaatcacat gttttgtatc atcaacaaga gggagaatgt 60
gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcattttg 120
cttcaagatt aatacaagat tggttcatca aacaaagcct tgattcaaga tttcttcaag 180
atcaagcctt gcttcacaat gaaaggtttc aagtcattca aggcacatgt aatcgattac 240
caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300
aatcgattac cagagactct gaacgttggg aattcaaatt ttacatgaag ggtcacaact 360
gttcaagaca aacaactgtg taatcgntac actaattatg taatcgatta ccagagagga 420
ttttcaggaa tatcgccaac agcacatctt atcatttgaa ttg 464

<210> 4248
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4248

ctgtcgaaat gccatgtgtg ggtgagttag acatacccat tctgttntan ggtttttgtg 60
atgatgtttg tgatgtttat atgctgaaat tgctaattgga aatctgttag agacgaaggg 120
tagaactaac ccaaggtttag aaagtgagaa tgtgatgtta tgagtggaaa aagagtgaga 180
ctttgagagt tgggaaggcta agtccgaatt ctgtggtaaa tggagggttag agtgagtcaa 240
tactagcttg aaatgtcatt tagaacatgt gagaaagggtt aggctgagct agagagaaaa 300
ataaatgacc aaagtgaacc aagagccatt tctagggcaa aattgggtgt tgaagagtca 360
aa 362

<210> 4249
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4249

tatcaaaatg caccttaagt gcatgtttgg aaaagattaa tttcacgaaa tattcacttc 60
 ttntttgaaa gttctcttgg aaagctaaca aaaaataaaa gtgattatct ctagaaaata 120
 agttgaatca aacatgaact aaatctttta agagcctaaa agtgattatt ggctgcaaaa 180
 aagacttcaa ctaaccaaat ccatacaaaa caagcactaa ccaaagttct ctcatgtaca 240
 acattgacaa acatgtgttc tacttctaata ggcgcctttc caatttccaa attcagtttc 300
 taaacctttg aagagctcga gtgattactg accggtaaaa tcatattctc agggccaaaa 360
 tgcagcgagc tatgggactc tattatctac tacaaaaaa 399

<210> 4250
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4250

agcttaatca caaaggatgg catgggtcact ggctgccata ttttcaatca gctccataac 60
 ttcacaggt gtcttcagtt tgatcttccc accagtggag gcatcaagta actacttcga 120
 atggggctgc aagccatcaa tgaatatgtt gagctgaacc ggctcgttga acccatgggt 180
 gggagtcttc cggagtaaac cgtggaagcg gtcaagagct ctccaccttt tcttcggag 240
 tcttgactc tggaaaatat ttcttcaaan atttctccac cacctcttcc catgtctgca 300
 aactatttcc cttgacgagt gcagccattt ttttgcttca c 341

<210> 4251
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4251

tacgtgacac tataaaactc agcttaatag tcaggaaata atataattca ccctctttta 60
 tattcgagcc attgatcaac aagggatcaa gcagtatctt gaaaagttca caactacaga 120
 tcatggctct taattttgtt ctgaggaaac catcataggc caccatatta atggggaggg 180
 ttaccactat tttggaaatc cgaatacaaa tctttattga gccatagant taaacatttg 240
 ggaagcaata gaaataggac cttacatacn caccatagta gatgtaagca ctagcaccac 300

aacacanaaa cctagagata agttgactga tgaggataga agaagatcca atataatctt 360
aaagacaaaa acattatcac ttctacccta tgaatagatg aatattcaca catatagtca 420
atcatcttg 429

<210> 4252
<211> 293
<212> DNA
<213> Glycine max

<400> 4252

agcttaccaa ttctactaaa cttccagctg ttgctcattt accctcttgt gctcgcttg 60
tatgtataat tatgcacaaa atcgctgccc ggctctatgt ttaatatcct gcatataata 120
ccatgggtgtc ttcttctaca atcgcacaaac aatatttact tgtcatgccg gcttctcagt 180
ttaataatca ttaacactct ttaattaaag aacgatgccc atttttgatt gcatgaataa 240
atgaatcgga atccatccaa tgcttagaat aacttttcat gctgtcatgc atg 293

<210> 4253
<211> 365
<212> DNA
<213> Glycine max

<400> 4253

tctgtggtta tggaataatt gattatcaaa agtgattatc gattatttta acacacaaag 60
aactcctaataaaggttcca aacaaaatct aatcgattac taaatgtagt aatggattat 120
ctcgagccat aaagtcttta ttctggtgaa acttacatat gtaatcaatt attgaaactg 180
ggaattgaat aattccgtga ttcttgccaa atttcaagta gaagtgaact atgtggctta 240
ttctaacact ttgtaattga ttattaaact ttggtattga ttattaaact ttgtaatcga 300
ttacattata ttgaactcat tgctttaaga aactttgaga atcaatcatt aatctaccat 360
ggttg 365

<210> 4254
<211> 393
<212> DNA
<213> Glycine max

<400> 4254

tgtagcaagg ttattattat ggtaaatagt tggactacat tgtgagatac attgcaagtt 60
 gtctataaca atagtttttg taagtataat ataatatata tgtgatgata tgaagaataa 120
 taataatcta taaatgaatt gcaaattaca aattacaaat ctgtattaag tatcaccatt 180
 aatagctgaa tgttgtcttt tttgttcttg caaaatagtt ttcctacgct tcttctgttc 240
 aacatatatg tccatgagta attgatttct gcaacaactg ccttataatt gccaaacaat 300
 aggaaaatca aatgttgaaa ttgagttaaa taagttgctg tagtaggctg actttaaaat 360
 gataccaaca ttatagttat ttgcatttgc ttc 393

<210> 4255
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 4255

tattcaagtg acacagctag aagcctggct ggaaccttcg agtgacagca atcttgtacc 60
 catccaaga atgatttggg ttccaagatt cccaccattg gaaccaaccc aaagcttctc 120
 catccatcgc gatcatcact gcttccagct tgtcctcttc cctaactgcc cataaccgaa 180
 agtattgctc aatcttggtg tccagcccat tggatcctca ccatogaata tgggcaattc 240
 taaattcctc caccgattgc cgttgtgcgc tgccatacct tcatocccctc cgctcgccta 300
 aactgtatgc acatttgtcg ctggagattt tttctccac gccactgtca acctttggat 360
 catcccttcg atcgagctca gccgcgattc cactgcttcg cgattctcct ccat 414

<210> 4256
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4256

gcagaggatn tttcaaactc ctcactttct tagatctctt ctctcagata aaactttttc 60
 cctcttacca ttttcttacc gtctattcac acccagcaca cacaagagaa caagaagaga 120
 gagacagaaa gagagggaga aagagaaaat caaaaaccct ctctttcaag gcatgtcata 180
 gatcgtgttt atggaatagg gaggcaataa cataggagat aagatatata ccaagttatt 240
 agaatcatat gtacataatt tgtttttagt cacacatttc tgattccaaa atcagttgaa 300

taagaacttt actgaaatag gaggcagatt ctcatctgta gtaaaagtgt tctttctcat 360
 attaaattag atgaacagac aaaattgtac tatgttttt 399

<210> 4257
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4257

tgaaaagtgc aagaaaacga actacatttt ctgcattttt tgaaaaaaga gatgaactcg 60
 ctaagcgagc atgctgcgct aagcgagttc atcagtactc attgtatata ggcgttctct 120
 gaagaactcg ttgagtgtgc ttaacgcgct aagcgagttc atcctttgag gatgaacact 180
 tctctcttg ctttaattacc tgtggctaag tgaggatgaa tcgctaagcc caggttactt 240
 agaaaatttt ttattgatag ccgcgcgcta agctgagctt tcctgggcca agcacgattt 300
 gttgcggcat ccgctgagtt aagcgagctt cgctcgctaa gctcccaata cttagtgaaa 360
 ttttttagga gttggtgccg ctaagcacia cctttaag 398

<210> 4258
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4258

taagctcttt caactgcaca aagctattaa tattngaaga gtatccatat ggaaccttca 60
 cccgacgaag aactgacaa aaacttatct tctccttttt ggacaaagca tggcaagcta 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180
 aagctagatc ttgatgggta ttcaagccat ccttcgtctt tccttgaatg ttaaggagca 240
 tcccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtctagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
 tcttactttt atccttcttt tgggtttttt caaatataat at 402

<210> 4259
 <211> 369
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4259

gtaaccgccc canaatggct atttccctat aaatagccgt gatgggggag gggtttaagg 60
ggttccaagg ttcaagagtt gatagaagaa agaaagaaga agaaacaaag atgaggcgct 120
accgaatcgt gactgtgatc attccctaca tcgttttctt gttctgtgtt cctcgtgcaa 180
caatcggtta gttttgtttt taaggattga gtatgatcta tgtaccctta ggggtcccct 240
ctgttattat gtgcatattc atcttctcca tctatcattg gtaatctcat tttttatttg 300
taaagtttaa tcttaactga tcactagttt cgtaaagttg tctttaaaga gattgaaagc 360
taataaaca 369

<210> 4260

<211> 386

<212> DNA

<213> Glycine max

<400> 4260

tatgtaaact ggctctctgt ttgtttgtta caaacccctaa ttaatcaatc agtttgattt 60
gattttgggtg tacaataatt taatctgtga acataatttg ttgatcgcat cacacgtctg 120
ctgaaattgg ttatatcaa acgggtgcgtt aattaattag aagatttgat aattgatacg 180
tttgtgtact taaaagcaac gtatgggtctt ttgtagtcga tctagttgaa gattttgaag 240
tggacacaaa cttcttatta ttttaattttt gttttttata gtcgacagtg gttaaaaaat 300
gttattaaag ctctatttac tgaatgtttt tggtttatta gaccatgtat aaggcgatat 360
tgttttaaac atatccataa ttaatc 386

<210> 4261

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4261

tatcatagaa ggcaanaaaa aggtctttat aacgtcttcc aaaccattgg gattctaagc 60
cgcaatcgaa agtttggaac tcatgatccc ccttagtttt tgctctatcc aagggaacg 120

caaccatgtg tcagagcatc atggagtcta tgacaacaac gagtcgtgac gaagatggat 180
 ttgtgatagc ggcaaaacta tgtcagtcga tggagatggt gttgtattgt gaaagatgta 240
 agaaagaaga atccgtggaa gaaatgttat gacaaaaaaa tgatcatgat tacatttgac 300
 actctcttaa atatatgaat accatacata aattatcata gtagaccagt cttaacttaa 360
 cctttaagat agataata 378

<210> 4262
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4262

agaatcggac ctcaagtgtga aaagttatga ccatttgaat atctcgggag cttccgttgt 60
 acattttcga gcgtctgtat atgagatgcg cctgaatcgg acatccgagt gaaaagatat 120
 gaccatttga atatgtcgag agctttcgat gtttaatttt gagcgttttag atataagata 180
 agcctgaatc ggacatcctg gtgaaaactt atgaccattt gaacttctgg agagcttccg 240
 ttggggattt tttaacgtct ctttatgtga tgcgcatgaa ttggacatcc gaattaaaag 300
 ttatgaccat tagaatatct caagagcttc cgggtgacaa ttctgagcgc 350

<210> 4263
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4263

tntctctttc ttctgttgcg cggggccggc cttccgtgga caaaactatt ggatgtgtcg 60
 cgatgttggg ttgaggcaac gtgctgggtg ccggcccttc tgggatcggg ggatagaact 120
 cgacatccct tcgagcatag tcttgagggg ctttgtggac ttcttcggct gttgaggagg 180
 ctctctttca agacgggaga agcaatatgg ccgcatacct cctgcaagac gggtggtgag 240
 ttattgggcg gcaatccata agtgtaagcc ggtcgggtga tcccagggtga gggctgccat 300
 cgtgccccag aggtcccttc ccgcctact atgttgaggg agatgggtgcg catt 354

<210> 4264
 <211> 399

<212> DNA
<213> Glycine max

<400> 4264

tagtatatgg acttgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60
tatcatatct aataattttc acatttatgt ctaattgcc a ttttacttca ttgtagttaa 120
tttctaaagc atccattgcc taagaaatct cgggcagtaa gtagacataa ccgtaacgtg 180
aataatcatc aataatggtg ataaagtatt attcctttcc gaaagaacta acatcaaaaag 240
gtccacaaat attagtatgc acaatttcaa gaagctgagt gcttcttgta gctcttttct 300
ttgtatgttt tgcttgtttt ccattaatac aaccacaca aatatttaga tccataaaat 360
ctagataagg aagaatttca ttctttatta atttttcca 399

<210> 4265
<211> 392
<212> DNA
<213> Glycine max

<400> 4265

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcaa 60
aacgattctc cacatccaca aatcacgtat aaccacccat cccctgttgc ccacctccaa 120
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgtc gggccccat 180
caatcctccc aagcttccac aacatccagg taattccaca tccaatcatc atggactaac 240
aaaaccaagc aaaacagggc aaaggcagaa aactctgccc aaaactcaaa ccaaaaatca 300
cagctttttc tcaactaagg accccagtaa catttccttc gttccaattc gttaaccgtt 360
agatcgactc gaaaatttta ctgtaagtcc ct 392

<210> 4266
<211> 381
<212> DNA
<213> Glycine max

<400> 4266

taaagcacia cattgaccat gagctcttca tatcgccctc agtccaatgg ccagactgag 60
aatcttaata agaccattga gatgtatcta aggtgctttg tatttgaaca tcctaagagt 120
tgggttacta tgctaccttg ggcttaattc tagtataata cttcctttca ccaaagcttg 180

ggcatgacac catttcaagc agtttttggg agacctccac caacgggtgat gcactacgag 240
gttgatccta aagatcccg tccactcaag gctttattac aactacgtga tcaacttttg 300
agcaagctta aaggtaattt actaaaggct caacaatata tgaagatgca agctgataag 360
aaaagaagag aaagagaatt g 381

<210> 4267
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4267

agcttctaca atctccccct ttntgatgat gacaacctg aaatcaagaa acacacacac 60
acacacactt tttcctagtc gatcactcac ttaattctcc atattctccc cctttgtttt 120
tgagtttatg cttcacttga aattaagtta attacttatg tgagttcttg atttaatccc 180
tatttctctc cccctttggc atcaacaaaa agccaaagtg cgtaacaaat ataaatcata 240
catacattac taatcattca caagacattc attgaaaaat ctaaaccaat catgaagcaa 300
gaaacatgaa tagatcaaat atataaaatc cacatagtca tataacacaa ttcataattg 360
ttcaatcata ctatgcaaat aaaagaaata ctaaatt 397

<210> 4268
<211> 402
<212> DNA
<213> Glycine max

<400> 4268

tgtaagattt gcaagatcat cttccttgac aactccttga aaattattgc catcaatagc 60
cagagatgac aatttagaga gtgatccaat actttcaaat ggatttccac tgaatttatt 120
aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180
accaattaag ttgttgaaa aatctagcat gtcaatattt ttaaaagccc caatttgatc 240
tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgattc cctaggaaat 300
acaaagagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360
acctatctcc cttaagttgc agagattatc caaagaagtt ga 402

<210> 4269
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4269

tagacaacac agcatacaaa ctacattaat tggatggcaa agtattttcca agaacatgga 60
 acgccaccca cctgaatttc tacttttagtt gacctaattgc aaaactagat gttatttcttt 120
 tttttcctac tcaagtcttt tttcccaaaa gagaaaaaat atggggtttta gcttgagagg 180
 ttttcatgag gtacatctaa gataacaaag ggaatttgta ctcaatcaaa tacattgaat 240
 aaaattctgc atcccttcat tttcataatt ttcttgtgtc ttcaagacag gtacatccgt 300
 gggtgcagct ccacatgctt gtcaaaccga aggtccaccc ttggtgagtc ttgccaaaat 360
 ctaggataaa tgggtcattg gtcattttcc 390

<210> 4270
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4270

tgagggttgg gtctcaaaac cagttacaac aatttttgaa gcgaaagaaa gataaaatct 60
 caacattgaa gtttgtttgg tcgtgggtgt ggcttaattc ccaaattcat ttttgaaacc 120
 aaccttaaac tatccacatt agtgaaactc ccaccatcaa tgatcaaaga gcataactac 180
 ccttggatga ggcacctcgc atgaaaaatc ttttctcttt gactatcadc caattcaact 240
 gcttggctac ccaacatcct tctaactgtg aacaaatctc cttctaactc tctttcctct 300
 tgatgctcct cttcatcgct agatgggaaa gattttgaag aagattcact aattatttct 360
 ctatcctcct taagtaacat agtcttctt 389

<210> 4271
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 4271

ggacactatg aataactcagc tcgattggag cggatgggac agtctgcctc gtttttcacg 60

aatcaataaa tgattcggcc tgctcgtga cccacgggt caaacgtgcc gatccgcgac 120
 ctaatttaaa agaattcgat tttataaaaa tacaatacaa tgaaattaag ttgaatacaa 180
 atgtaaataa aatctcaata attagtcaat tacatcaata aaataaatat tgtcttaata 240
 aaagaaaatc caagcaatac atctaaaata tgaaatttaa acatctccaa caacaaatga 300
 ttccatattt gataatgttt aatgaattct gactttaata aaaatataat acaatgaaat 360
 taagttgaat acaaatgtaa ataaaatatc aataatt 397

<210> 4272
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 4272

tgaaggtacg agatgatgag aggatggata aagagtgtag gaactctatc gcctgtgcct 60
 cagagaaggt ctaaacattg aagagtaatc ctcaaataat acaaggtgaa aaatgcacac 120
 acatggcctc tatttataga ctcagtgtcg caaacaattg gaaggaattt ataatttctt 180
 ttcaagattc acttgaatct gaatttgaat tggtaggagcc caattttgga gccgaaattg 240
 cagtaattat tattagagaa ttccagttat ggttcagccc actaatacaa gacctggtgc 300
 aagagtttgg actaatagtg ctgatgtggc atgacgaatg tatagcatga aagacatgca 360
 c 361

<210> 4273
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 4273

ttggagaatg atttctatac aaaagttagt cgtataaagc gactaacagt gtgttacatt 60
 atggcatttg cctatgttcc tgatgcagga ggcttgagga agaagatttt ggaggaagct 120
 catcattcct ttacaccac tcatccgagt tctactaaaa tgtatcaaga cttaaaggag 180
 ttttattgga agggagggat gaaaaggatg tagctgaatt tgtatctaaa tgccatgtat 240
 gtcagcaagt taagacagag catcagaagc ccgtaggttt gttttagagg attgatatac 300
 ttgaatggaa atgggagaga attgtaacac cccagattct agttcaaaac attgctttga 360

aaactctcgt taattatfff

380

<210> 4274
<211> 379
<212> DNA
<213> Glycine max

<400> 4274

tctaaggacc accgaaacga attgcatcaa ttttcttctc cagtgaagca gggtcaccca 60
ccaacaagtt tgaagcaacc ttcatttctt ccatttgcaa atttttcccg caaacagaac 120
tagaaaaatga taccctttta cgaaaaagtg tcataataat taataaattc ataaaaggaa 180
aagaaaaata caaactttta catatagatg tgcaatacaa atgaggggtct tgaattatta 240
tttacctgga acctacaaat atagttattg ttgcccataa tggcccttga ggctctgaat 300
gggctttcga ttaaggtttt tggggcagaa cacaatccat aagctagcca cgacactttc 360
gcttggaact caaacttct 379

<210> 4275
<211> 415
<212> DNA
<213> Glycine max

<400> 4275

atgcaatgct caagcttccg ttgccgagag catcgatgat ttacgcattt cagcctatgg 60
tgccttgtag cttatgacaa gagccggacc ttgttctttc tttcgtgcac atccctgtct 120
aaagttccaa gtgctttctg catcaccac atccacgatt agccaccaca aaccatcatt 180
gttctccatg gaaaaccac accgagagga acccttgaac cgaagcaca tttccaactt 240
ggcttgcggg ttctgtagag aacgaaaacc ctaatctgat ctttcgcttt ctttcgaggt 300
aaccatggct ctatgcttgt ttcttgtag tttcatcttg tctttgcac ttttctaact 360
ttgcaaccac cattgcatgt cttatgcttg ctttgaaaaa ctttcaaaa agaga 415

<210> 4276
<211> 397
<212> DNA
<213> Glycine max

<400> 4276

tgttgaacct ctcccattac tcatataatg tctctccaag ttgttgccctt attgatgcaa 60
 gctccattgg agcttgtaag cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120
 aagatgaatg gcagtggaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180
 gatgagtcta gaagaagctc accaccatat gaggccatgg ataaaagctt ggaggaagaa 240
 agagatgaat gaagggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagcttt 300
 gaaatctgaa gtttaatat ccaatgatca aagttgaaaa aaatgcacac acatgacctc 360
 tatttatagc ctaagtgtca cacaaaattg gagggaa 397

<210> 4277
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4277

ntaattaaat ccataattnt gttttgttgt tgagtgtgat tttttttctg gtatccatga 60
 cattgggtgtg aagtattcat ctgatgacta attttcattg aaaaatctga ctaatcactt 120
 ttagtggagt atctccttcc aactatgctt tttttcatct ataatgttcg aaccaacac 180
 cttacttaag ggggatgtgt gtatgatttg aaaatgacta agttgggtat tatgttatgt 240
 gcaggaccct ttatgtgagg agcaaaacag attaggttca atgcctccca cttgccacaa 300
 caagtgaac cagtgtcatc catgcatggc agtgcaagtt ccaacctcgc ctaaccatga 360
 acgagttcac ccaggtcttc ttcccccaac tgct 394

<210> 4278
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 4278

gaaggagtac aagatttggg gttctgtcta tattctatct tctcttgta catctttctt 60
 ggaaaattat tccgatatgc agaaaaagtc ttttttaaga atatgacata tcatacattg 120
 aatacacctt tcattatc tcagattaca gtaaaaaaag atattattat ggcccaatta 180
 tcttaccttt taatgttgat aataactctc ttatatagat agatagtata atgtatcttt 240
 ttttatataa aaggagtgtc aatatacaac agagtgtttg cgaatgtatt gttggattac 300

cataatatcg atatagcgac ttgctggtat ggataaataa tgtatttaca ataattaatg 360
agattgatat agggaaagaa aa 382

<210> 4279
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4279

ntgagccaaa atcctgactc accataaacc ttgaccctgg tgagaatgtc aatccttacc 60
ctcggaaagca aaaaaggaag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 120
gaaattccca atcaaagagt gggagaaagc aaaaagaaaa gaaagaaaat tccaatcaa 180
agaatgggag aaagaaaaaa aaaagagaag gagaagaagg aaagaaagct cctgggtcaaa 240
gatcgaaaga aacagaaga aatatgcaga gaggtctttg gaccagacaa tatctgaaca 300
atacggaatt gtcaccaa at gaacaaaaga aagaaaagga aaccataacc taaaagtggg 360
cttctccctt tgattaccaa ccaaaatcat gtgcattcgt gacttg 406

<210> 4280
<211> 391
<212> DNA
<213> Glycine max

<400> 4280

taataagtgc atatgatgta gctccatgta gagcttgtaa gccttggatc ttcttcatca 60
atggagtcct ttgcttcttg aatatcaatg gtagcggaat ggagaagggg gaaaggtgat 120
tggagacgcc acgtctagga gaagatgagt caagaacaag ctcaccacca tatgaagcca 180
tggataagag cttgaacgta tgagaagata aatagaggga gagggagaga aggggcacga 240
aatattatgcc tcaaatgagg tatgaccttt gaagtgtaat ttctcaaata atcaaagttg 300
aaaattgcac acacatggcc tctatttata gcctaagcgt tacacacaat cggaggggaaa 360
tttgaatttc tattcaaatt tcaattgaat t 391

<210> 4281
<211> 380
<212> DNA

<213> Glycine max

<400> 4281

tgtcattggt ttagacatga ttggtacatg atttgggact aggattcaat ttgggcaaaa 60
ttggatgagg gaaagagtgg ttttcgaaat ctgcacttta tgcagaattg tgctgttgaa 120
atgtgcagca caattttgta taagtgcaga aaaatgcttg tgtatggctg gttgtgaaag 180
ggtagtacat atggggttct agatatttac tagcagatcc caacgggtcaa aatgtagact 240
tatgtactag agacttccag taaaaathtt gagtcgatcc aacgggttaac gaattggaac 300
gaaggaaatg ttactagggt aattgtatgt gaaaagctgt gattttgagt tgtgttttgg 360
gcagagtttt ctgcctttgc 380

<210> 4282

<211> 361

<212> DNA

<213> Glycine max

<400> 4282

agagatgagg aagtgttgaa aggtgttact ttctgctttt attggcgacc acagagtgggt 60
acctggagat atgtcgcggg ggtcaagata ccttgtggac atcaggtggg gtgctattgc 120
ccataaccaa gcttgaccaa tcccgaacca acccaggcat aatcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gacatcagat aaaatgaaaa caagaccaca 240
aagcatggag gcttgtggtg gctggccagc tgtgaaactt gatagatatg tggattgtgg 300
cctctgggaa tcgattacca acggtgagta atcgattaca ggcttaaaat tgaggacagg 360
a 361

<210> 4283

<211> 387

<212> DNA

<213> Glycine max

<400> 4283

tccatcacag ttggaagcaa tagaggggaat gcactatcta tgacggtagg acgagagtga 60
gatagagtag tgtgggcatg acagagcttg caacagactt tagaagtcac ggcagactga 120
agggcgaaac tgagtaaatt aaaggcacat atgtattcga tcaaagagtg aaaagtgaaa 180

attaaagtaa ttaaaaatct aatgacttca aagatggttt ttaaaaaatc gtagtagtca 240
agttagaac aaagatgggt tttataaaac ttccttcgta acattcatat caaagaaggt 300
tctataaaaa ccatcgtaa cgccttaaaa tagttggat taatttaaaa aatgtcacca 360
catgttttac tacattgggt tttcgat 387

<210> 4284
<211> 372
<212> DNA
<213> Glycine max

<400> 4284

ttggaaga taagctttga aaggaccct tcaatgagta aagaagaaca aactatcacc 60
ctaagtcagc cacaaccata agcatcaatg gtgcccttga ccttacattt catcaaatg 120
gcataacata ttgattctgc aaaaggccaa tggccaccat acgaccttcc acccaactat 180
acacctctaa ccatggcaaa tttttcagaa agtgaccac taatgactca gcaactagt 240
gtgcaacaat aagctcaacc gcagatcttg ttcagaacat gtctcagccc cgaaataata 300
aaccttgctt ctcaaggaaa attcttggac tatctagaca ctacacactc ccttctaatt 360
ggttggttaag gg 372

<210> 4285
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4285

attgaacgtg ttgagccgga tgatacctcg caanncanga cnanaagagn ctactcagt 60
gatgggatag ttccttcaaa cataaccaca ctttcggttg gattagaaga tttatgtgct 120
gagatttacc tagcgaacga cttgtacgag atctatgttt cttacctcct ctagtctggc 180
ttacgctttc taaggaatgt ggtgctttgt cacaatgatt gacccttcct cggtaagaat 240
tagctcattc atggggcatt taggccttgt acttatggca ggacacttga aataatccag 300
agctagccat gagaccggag ctgccttagc agaaaggccc ttctttgggt tagggcaaac 360
ggtcagagct gtattttaaa atacgctttc attaaaaaat ctcacgacta tacgttattt 420
atgatcgagg ccttgatath cagtccatcg ttatggggca tatcg 465

<210> 4286
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4286

tctaacggtg aatTTTTgtg attactatat gggcgtatat aaaatttgca atcatatgtt 60
 caccgacacg acatttttctt tgtttggtga attctattat atatcttatt ggccccctctt 120
 gtagtatatc ttcactctgtt caacaaataa tagtattcat tatttagcat tacagttatt 180
 aaaacgttct tgatctttct gctgaacaca atttctctat aaagacaaga tagattcttt 240
 ggacctagat aaaagtaaca aatttacaaa agggccgtgt ccttggttgct tttatttata 300
 tctttcctta ctgatatatt acaacataag tcttattaaa aggacaagat tttgaagtat 360
 gctacttac 369

<210> 4287
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4287

tataacttac aagccttcaa ctaacttata cgtagttttt atcaaacata accatactga 60
 aggttcatta gtttttttat ttcatatatt tactagcaac attctaaact ctagttttcca 120
 caacttactt gtttagcttc taaaaattag tttttaaaca tatttacata attctaaaaa 180
 aacaaattat gaaaatataa ccttttactt atagagtata atttcaaaaa ttttaaattt 240
 agtcatgtat acaagagcat ctttagaaga aagctttttt tttcttttat aaaaaaaggt 300
 caaagctgta tttaaaaaaa aattcaaaaa aaaaaactca catatatatc tcatcattga 360
 tcgaagcctt actatcaaac caaaaattag gtgaat 396

<210> 4288
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 4288

tgtagctgag caagattgtg gaggatggcg taacatcaac aacaaatgtt ggtggcgagc 60

ttcccaaggg aggaactggg tggctcattc aggagagcac caaagaggat ctgaaggagg 120

<210> 4289
<211> 100
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4289

tanagtatgc ccgagtcatt catccctata agatgttggt gaagtattgg cgatcagaat 60

tgccatctct tggactatag ggctgaacca agctcatgct 100

<210> 4290
<211> 176
<212> DNA
<213> Glycine max

<400> 4290

tcgaactcta gcatgtacat cgtgaaactc aaggtctaaa tacaatttgg aagtggcatt 60

agataggatg cccaagagca agggaccaga aaaattttta accaacaatt aaggcaaacc 120

tattctaaag ggacagaaaa aaaatgattt tggttaagtg aaatgaaccg gctatt 176

<210> 4291
<211> 269
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4291

tanacatggt ttttaatttct caaatttagg tcattttttt tgtctttcaa atttaaattt 60

atTTTTTTtag tctctaggtt ttttaaggggtg cttttagtgc cctcttggtta gtgtgggtca 120

aattgaaaat aatgagtctt ttttttacca catttgagca atTTTTttaa ttaatcacat 180

aagtatgtaa atttccaatg aggtacgaga aatgagtgat ttgtgggttag gaacacgatt 240

tcatatgtga aggaatcatc cctgctcgt 269

<210> 4292
<211> 382
<212> DNA
<213> Glycine max

<400> 4292

aggtgatgag taattggaga aaatttttga atgctgttta ggtgaatggt taaagtaaag 60
gtgaacgatg aaaagaatat ttgaaggaaa ataaggaaag ataatgtgtg aaaaaaaaaat 120
ttaagtttaa tgaaatttga ttttgatttg ttttttaaag aagaacagaa aataagtttg 180
atcacttttt gatttgctta agccaatgtt tgacagagag aattttaaac aattagaact 240
gaaacaattt ggtttaggag cttgagctta agccattttg ttttatacta aggccaaaaa 300
caaatagaat tcaccctttt gctcccaatg ggctaggctt aagccaaagt tttcaagctt 360
aaaaatttac gcagaaaaaa ag 382

<210> 4293

<211> 368

<212> DNA

<213> Glycine max

<400> 4293

tgttggtgcaaa aactttgttg gcgaaggaca agaaattgta accgacacac tcgaagaggt 60
accacaatgc gatggcataa atgagcacgc caaccgctcc acgccaattc atccacaaca 120
ctacatcagc aactaagcct ttgtcgagaa cacgatgaaa ggatgagaaa ctaaggcaat 180
gccaagattg ttagaagaat gaagaatgag ggggttagaa tcatcaatgg caggcttggc 240
cttgaaagaa aaaaaagacc caccagcca tccgaagggg tcctaaaaaa cgaataataa 300
ggagggggcct ggccattatt ttaggaccta attatcaatg gacttcaagg gcctgagaga 360
aaaaaaaa 368

<210> 4294

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4294

tagatgtagc ttttgggaga aaaagagcat gccaaactagc ttagatgtaa tacttgngna 60
aaaaagagaa taccagtcca attcctatgc caaatacaag tctcccaagc accaatacag 120
gaaaattagg agctaatgct gttacaagag ctccaacaag ataaactact gcagctccaa 180

tcagctcctt tcttctacct aaatataaaa tttgtcacag cagtttcacc agggaaggaa 240
 atagcgaaga ttataactga caaaaaggga aattacctaa gaagtcagca acattgaagg 300
 ccaacaagga gccaatgaag gcaccataca atgatccact agtctggaaa agaagcaa 360
 gccattgccc cagtttatat tcaagatca 389

<210> 4295
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4295

tagagtttgc ggaagtccat aaggatcata cggcctttac cactcttttc actactacgg 60
 aatatggatt caagggagtc catctttgat ctcttgtagg aatgccaatg gtgactaaag 120
 gtactatgtc attgttgttt ataaggtgtt attgttggca gtacgtatta ctagcttgag 180
 gtcgagccat taccttgaca tcgttagcat taaaaaaga tgtttgtgtg agctgacgaa 240
 ggatattatg ggaactcaat tggatgtcca atgtatctca ctacatcaag gccaaacatt 300
 gtatttttgt aaaagaacaa aacttgaatt tttgttgc atccaagagcc attgttaa 360
 atttcaacat caagttctat tattt 385

<210> 4296
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4296

ttgagccaat tcaaacgaca ataacttttt actcggttat ctgantgagt cctggaaaat 60
 aacgagacgc tcgaaattga atgttgaacc tcagagcgaa ttcaaaccac aataactttt 120
 tactcggatg tgtgattgag tcccgtaata tatcgagacg ctcgaaattg aatgctttag 180
 ctttgagcca attcaccgca caataacttt ttactcggat gtctgattga gtcccgcaat 240
 atatcgagac gctcgaaatt gaatgttgaa gctctgaacc aattcaaacg acaataactt 300
 ttactcggga tggctgaatg aggcccgcaa tatattgaga cctcgaaat tgaatgttga 360
 atctttgagc caattc 376

<210> 4297
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 4297

tgcttctata gccaaaagta catattcgat tgtattatta ataaagagga gtcaaatac 60
 atctaaacag tgttttgtcg tttatattgc tgaaattgat aagacagaca aaggttgcag 120
 ttctcaatgg gaaaggaatc attcagccat aggacacgca tataggccaa ctattcttat 180
 ttaaattaat gattttcatc atttggctaa ttgtaccctt ttaacggttt attcaagcat 240
 aagacagtaa atgggccata ttaggcatgc tcttattatt taaaaataa accattgaat 300
 ttttgac 307

<210> 4298
 <211> 202
 <212> DNA
 <213> Glycine max

<400> 4298

tcagaggaag agaaagggtc atagaagtgg cgagggtgat acgggtaggg tttgggtttc 60
 aaggaaatgg gtatggcgaa acgagaaaca cgacttcagt gtttgaaaag aaagagaagt 120
 tgaagagaga gaaagtaaga gaagcatggg gaagagagga actgactgag aagaaacgag 180
 gctgtagaat ggtctcttgg ta 202

<210> 4299
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 4299

cgtggaagac cgatgaacta tgaaggcgaa tgacacatgg aaaacgtcga acctgtgctc 60
 attcatcacc gtaaattgat ctgaaacgga ctcgaagcgc ctcagcacat actgacttta 120
 ctgaatcaac actatcgac aaatgcgaac gagagagaat tgtctaacgg gctgaaccct 180
 ttgacttcga cttgctcccgt tatgtatagc aaactagggg agatgcttga cgaccagctc 240
 gctcagacga gcagggttgc ttactccata aacaacagcc atcgggagga atcttcttga 300
 gggcccaagt gggc 314

<210> 4300
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4300

gtattggacg ataactctgt cttgtgagan aagatttttaa aaagttctaa aatcacaact 60
 caatcctctg tcttgtaata cttgtcttta cacaaatgaa tttgaccatc attaataaga 120
 tgctttatgt gcgatgacat caacattaat attatgttgg ctgtagaaaa taacttaatc 180
 gaggcataca ccgcaacaat gaagagggtt tgattatcct tttagaactg caaagagata 240
 aattgagatg atgaatgtaa gacaactgat tgcaaaatgc aaatgttcct tgcaaagacc 300
 ccaaagggtg ggcagaggaa gacctctgtc attcacaaca aaaggcataa gcttaatgct 360
 tttccaaaaa ggactatttt attgttaatc tacc 394

<210> 4301
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 4301

cactatccac tactcaagct tgctctacat ttacattgat gtttgtattt atgggatgag 60
 gttgtacgtc atttttgttt taagaatagt atcccactgg taaaactaac tttccaaatg 120
 tttgccttcg caggaaatgg ccccgaggaa gcttgcttca aagagggtcca ggaaggacaa 180
 ggcagcagaa ggaactagtt ccgctccgga gtatgatagt caccgcttta tgagcgcggt 240
 acaccagcag cgcttcgaag ccatcaaggg gtgggtcggtt ctccggggagc gacgcgtcca 300
 gctcatggac gacgagtata ctgattttcca ggaggaaata gggcgccggc ggtgggcacc 360
 actggttact cccatggcca agtttgatcc agaaatagtc cttgagtttt atgc 414

<210> 4302
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4302

actcaagcta gtagcacatt caaaccacaa taactnttaa ctcagtatgt ctgattgagt 60
 ccggtaatTT atctagacgc tcataaatga atacggaagc acgtaacaaa tgcaaactgc 120
 aataaatttt aactcagatg tccgaatgaa tcccgttaata tatcgagaca ctcgtaattg 180
 aaaacagaag ctctaaacaa attctaacga caataacttt ttactcagat gtccgattgt 240
 gtccagtaat atatcgagac gcttgaaatt gaaaactgaa gctctgagca aattcaaacg 300
 acaataactt tttactcgga tgtatgattg agtcccggag tatatcgaga cacttgaaat 360
 tcagaacaga agctctgagc aaatttaaac gacaataaca tttaac 406

<210> 4303
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 4303
 tctcatcctt agtaacagct actactggac acacacttct acatattgtg ttccctctct 60
 gaatttcgga agtaatagtc ccttgactac tcttctaatt tctttccctc taatcctaag 120
 ggatggactc tacacttttt gggatatctt ttacttaagc tccatagatg aatttattta 180
 catgcactct tttagatttg aatctactaa ctccacctag agcgttttgg ctatagaagt 240
 tccttctaatt aaggggttaa ttatctcact tgacattacc ctcaactttt ggcacttatt 300
 ccttgcaatt ttctccttca aatttgaaca atttatatag tgatatggga ctagtcgttg 360
 ttgtgaccat tggacgatga attcaacatt caaatgt 397

<210> 4304
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4304

ntgcttcttg ctcatgtagc gcgtctgagc agtcacttgc tgaatctccc tcgatcaact 60
 tcacgcactt gcgaacaacc aataagttgt actcgcatca agatcctttg agtttctcta 120
 acttccgagg tggctctagc tgtggctgtg ccaatgggtga tcaccgcagc ggcgtctgtg 180
 ctagtgggtg cagtggctga ggtcgaggag gcagctgctt cgtgaacttc caatttcaac 240

tgttacaagt atggtcacac tgcctatgtg tgccattatt ggtttgaaac aaactatcaa 300
 cctagttcat ctcttgttct tcatgatcca acctcttcta actatggacc tcattctcag 360
 aacaattttc atctggtcag aataa 385

<210> 4305
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4305

ntggagtttc caagtgccaa ttcgttttct tcttttagtcc agtcttcttc tggcttcaat 60
 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccataccttgc tttccagtat 180
 tcatagttgg gtccatctag gattgggtgt ctgttcaactg gtctccttc tttctccatg 240
 ttcatcagaa tttatctccc cagatctcac tctgtgattt cgagtgtgag ctctgatacc 300
 aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcaagact 350

<210> 4306
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 4306

catcttcctt tgagtgcgtc acatttgaat tctagctcca tgggtggtgag agccttggac 60
 ggtactcgtg aaggagagat gggggaaatc gacattccca tctctataag cccccacact 120
 tgcaatgtgg cgttacaatt cataggcata aatcctgcct ataggggtgtc tcttggggag 180
 acctctgatt catgcgccag gagtgggtcca ctaaacactt caccacaaat cgaagttcgc 240
 agtgggtgga cttttggtga tagtatcggg tgaagaagat atgtcggtga tctgcccctc 300
 ctctgcccga tacgtagaag cggcagaaga atcattggaa acggctttcc aatccttcga 360
 ggtggtgagc tgcgcctctg tggaac 386

<210> 4307
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4307

ctggaaggat gcttcaatgg aggattatat agaggggttca tgatagacga tatgggggtgg 60
agtcacctac aagttgatag tgaattataa tgagggggga ggaacgtata acttctgaat 120
tgtgtctcat aagactttcc ttcacagag ctacatctag tgtttcacat gcttctatta 180
taaaactaagt agcttccttt gaaaaccttt ctgagaaaac ttccttgaga agcttccttt 240
gagaagactt ccttgagaag ctaaaactta gctactcaca cccctctcat tactaagctc 300
acctccttga gaagcttgct tgagaaaata cctagagaag ctagagctta gcaacacaca 360
cgtctctaata agctaagctc acctccttga gatgag 396

<210> 4308

<211> 383

<212> DNA

<213> Glycine max

<400> 4308

tcttagtttc agatgatgca gatggggttg tagctatctc atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactgctaag agttggaggc catcttctca attaaatctc 120
tagcttcaac aggagtcatt tctccaaagg ctccacctct ggcagcatct atcatacttc 180
tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240
gggtgggagca actggcacat agtttcttaa atctctccta gtactcatac aggctctctc 300
cactgagttg tctaatacct gagatatact atctgatggc tgtggtcctg gatacacgga 360
aaaaatcttt ctaagaatac tct 383

<210> 4309

<211> 340

<212> DNA

<213> Glycine max

<400> 4309

tttggccaat ctcaaaagtg gtgtcttcat gctgcaaatt gatggtttct gagtggaaaa 60
tcctaatttg gtttaagcctg aaattttgca gcatttgcaa agcagattca aattaattga 120
agttatgtac gagcactgta gcttttacia aaataagcac tgcagcttat ttaaggcaca 180
aattctgcag catctgcagt atgtgggttg aaaaagggtg ggagtggaaa tttaaattga 240

gaagacactt gtttgacaga gagcttgaga tggcagattg tttccgtaat gatgttggtg 300
gtagttgtat tcagattcac aaaaaagatg actggagaac 340

<210> 4310
<211> 398
<212> DNA
<213> Glycine max

<400> 4310

tgtagcatat tcaaaccaca ataactgtta actcggatgt ctgattgagt ccggcaattt 60
atctagacgc tcataaatga atacggaagc acgtagcaaa tgcaaactgc aataaatttt 120
aactcagatg tccgaatgaa tcccgtata tatcgagacg ctcgtaattg aaaacagaag 180
ctctaagcaa attctaacga caataacttt ttactcagat gtccgattgt gtccagtaat 240
atatcgagac gctcgaaatt gaaaactgaa gctctgagca aattcaaacg acaataactt 300
tttactcgga tgtatgattg agtcccggag tatatcgaga cacgtgaaat tcagaacaga 360
agctctgagc aaatttaaac gacaataaca tttaactc 398

<210> 4311
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4311

ttgnngctga ggacttatat aacagtatca aggttttatt tttaggagtt tttggagatg 60
agaataattc taggatttta gaattccagt ttttactatt catgcgcact attcacgtag 120
aataaaattc attttctgca attccatttt tgcttcaatc tacaatttcg ttttctactg 180
attaatggaa ggctaagtct ccagcgttgt tttctcttga ggatcaaaca catctctctt 240
tgagggtttg ttattactat tgaattctaa tcagtttttt cttcttcacc aattactctg 300
tatttggtgc tattaatcca tgcattgctta atgcttgatt aattttctct gcgcttaatt 360
tacattcatg cttaatgatc aattttctgtc atg 393

<210> 4312
<211> 398
<212> DNA

<213> Glycine max

<400> 4312

tggttcgagg tactcaccg ttgaagatcg aagaacgtat gaaaacgaat gaagaacgtc 60
gaagaacggt tcaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120
agcgctcgg cttagatttt cttcacggaa ataatttttc caagcaaatt cgaaagagag 180
agaagtgcct aaagggctgg actccttttc ttcttcattt tctcccctat ttatagcaaa 240
ataggggaga tgcttgccgc ccagctcgcc caggcgagct cagctcgccc aggcgagctc 300
agctcgccca ggcgagcagg gttgcttctt ccagaagcaa cagccttctg gaggaacctt 360
ctggagggcc caaatgggccc tgggtgctat ttgcaccc 398

<210> 4313

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4313

ntactatgca gagaatatcc aaggaaaata ccttcattctg acttagcatc aaattttcct 60
aagttatctt ttccattatt taatacaaaa catttacaac caaagatatg aagatgtgag 120
atgtttgggt ttctgccatt gaacaattca tatggagttt tctttaagat gggctcttatt 180
aaagccctat ttaaaatgta gcatgcagt ttaacggctt cagcccaaaa atattttgga 240
agaggtgtat catttaataa agttctagca atctcttcca aagatctatt tttcctttca 300
acaacaccat tttgttgagg ggttcttggg ccagaaaatt atgcttaatc cctgcttacc 360
acaaaataat tcaattttta ttttcaaact caccctcg 397

<210> 4314

<211> 403

<212> DNA

<213> Glycine max

<400> 4314

tgattatcaa ttgtgtgctg tggtatggca atcagttgat ccggatatct tggatattct 60
tagatcattt aaaacgagtc gttctttttg gaagaaagct caagaaattt ttgccaatga 120
tattcagagc ttatttgatg caaccatgaa agttacagcc ctcaagccta ccagccatga 180

catgactgct catgtgggta aagctcgggc tgccgtggaa gagctgagaa agcttcttga 240
ggctgattca ttagaagaag tgaacaagaa actggacaag ttttacatgg tccttatcct 300
gagaagctta cactcagact ttgatcatgt tcgtgatcaa gaactcgctg gggatcaagt 360
ttcatccatg gatactctca tcactaagct tctccgcggg cct 403

<210> 4315
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4315

tgtaatcaat tacacacata ttgtaatcga ttaccatagg agatnttcag aaaatattct 60
caattgtctc atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatc acttgtgatt caataaggaa 240
ttgtttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttcttttc 300
ttctttattc tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa gaattctcaa 360
caciaaggaa ggattgtcct tgtgtgt 387

<210> 4316
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4316

ntntggagta gaaacatggg accaactcat tttattttta naaaaaagtc gtatctagtc 60
aagatctgag agaccataca agtttcttag cggtttctaa ttatatgggc cattaagcct 120
atcatatgct gacaatagcc gagaagccca tgaatttctt caggggcgga gtaagtgtcc 180
gccattgcct tggccttggc taacaatcgg ggaagttctt gactcctgtt aaggtaagag 240
caaaccgac catccacatg gttgcctctt ggtgtaaaga gtcgatcacc ctctctctag 300
cctctttttg cgcgtatact tgggcatact catccgcgac cctatgcttc ggggcgctgg 360
ctagacttaa ctcttcttgg tacttggc 388

<210> 4317
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 4317

ttttctaaac tttagtttgg attaccaaga ctaagtcttt cttactaga tgattaagag 60
 gatgcatatt tatgtgtgca atcctaagat gccataaacc attcttattt gtagtatgct 120
 tttgcacgtt gagcaagtga ttaagatcac tctttccttt gtttaattat gcaaacatat 180
 ctttaagata gaaaaaatca atttgcaact tcatacgttc agcatagtga tcctttttta 240
 tatttttaaaa tttagtttgc atagacttgt tatcatccat gtttaaagaa atagtagtac 300
 aattacaact agtggc 316

<210> 4318
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 4318

tggagggatt gatggggacc cggtgttgag aggaactatg ataagagcta cgtgggagta 60
 cgtgagctca gttgaaggtg ggcaactggg gatggtggat ttatgtgtga tttgtggatg 120
 tggatagtcg acttgcacca tcgcccgacc gccacctagt accacatgtg acgggtaccc 180
 cataatccta caagcttgaa gtgaggaagt gtggaagggt gagacttcct actttttattc 240
 gttgaccata gagtgggtacc tggagatatg tcgcgggggt caggagacct tgtggacgtc 300
 aagtggggtg ctattgcca aaaccaagct tgaccaatcc tgacc 345

<210> 4319
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4319

tggattnttg cttcttctct ctgatacctg caacaactca aaatcacaat tcagttccag 60
 tcatacatat tagaagccac agcagcttcc acagttgagt gaaaagcaca aagaagcact 120

agttaaaaat ttgagtgaag ggcacaaaga agccatagca ggttctgcta aagttagaca 180
atgaaatacc ttaagctttc ttgacctggc ctctgcttta gcattttcga ggtttaccga 240
agcttggatt tttgggtctt ctctctgata cctgcaacaa ctcaaaataa acactagtta 300
aaaatttgag tgaaaggcac aaagaagcca caacaacttc cactaaagta cctcctcagc 360
ttctacggct accgctt 377

<210> 4320
<211> 332
<212> DNA
<213> Glycine max

<400> 4320

tgaagaggat gatttaatgg aggaaaagaa agacttaaga ggggagcacg aaattgaagg 60
aatgaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcatcaa 120
agttacaata agtgttacac atgcttctat ttatagacta agtagcttcc ttgagaagct 180
ttcttgagaa aacttccttg agaagtttct ttgagaaaac ttccttgaga agctagagct 240
taactacaca caccctctta atatctaagc tcacctcctt gagaagcttc cttgagaaga 300
ttcctaaaga agctagagct tagctacaca ca 332

<210> 4321
<211> 397
<212> DNA
<213> Glycine max

<400> 4321

tatccttatg gcttgctcc ggacttcacc ccccggtcca ccccggaaga gttaagccaa 60
gccccttctt ttgaggggca actccacca tatgaagagt atccggggca agacgatggg 120
gaaggagata cccatcttgg cccctgctc cacctcaaag atccgtcccc gcatgaacta 180
ccccaaacaa acatagtccg tcataccccg gcttcacca caccctaaa gaattctattc 240
cctttgcgga agataaggga aagattgagg tgcttgaaga aagggtgaga gcagtcgagg 300
gcctcggaac ttagccattc tcggatttag cggatttatg tctcgtgccc aacatcgta 360
tccctcccaa gttcacagta ccggactttg ataaata 397

<210> 4322

<211> 395
 <212> DNA
 <213> Glycine max

<400> 4322

tgaacgagcc tttggcgatc aaactcaaac ctcagagatg aagacacaag tgcaaggcta 60
 attcagttgc gcaagaaagt cacacacgca ggagacctgt tgtgcatcaa gggaggtaaa 120
 ccaagaagat ttataccaat gagtcataag ccattatata agtaaaccta acatcatact 180
 ttaatccaaa atcttaaagt tcaagtttat gaatcttctc cttacttata tggttctcaa 240
 tttttccatt tctacttgat gtgagacttc acctcatact tgtactttaa caatcatttc 300
 atcaagtgtg agtctttttc acatgttagt ctccctctcg agcggaagtc attatcatcc 360
 atgagtattc catggtgacc attaagctca tatgc 395

<210> 4323
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4323

tatggaccaa aatgagaaan atggatcatt tacagggact taaaatgaaa cttntntaaa 60
 aaaattaagg atttatttga aatttcctta attttaagga taaaaatgac attgggatac 120
 aaatctagag actatagaga gaaaaagaga tgggagacaa aaaaatagat atagaaagag 180
 gaaagaacaa gaaaaaagag gagggagaaa agattgagag aaaaacaaga gagaagcgag 240
 agggaggagc atatgaaaaa aaaaacaatt ttctactttt ttagatgaaa tttgaaattc 300
 tataatttta ggtaattaaa atacttcaac aaattattag aatttcaa atttttatta 360
 tctaaaataa aacataagtg a 381

<210> 4324
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4324

tatcctttga aagatcaata ctctcagttc ttttgaattc gttcactaga aaatccaata 60
 aagcattatc aaaatcctct cctcccaaga aagtgtcacc atttggtgct ttcacctgga 120

cacaaaaaag ttattagtga caatttccaa cattatttcc aattactggc tatgaaatat 180
aagcatagaa taaacaagtg ttaatacctc aaaaacacca ttagaaatct ctaagatgga 240
cacatcaa at gttccacctc caagatcaaa aactgcaatg agaccctcct tgttggtcat 300
cccataggaa agtgcagcgg cagtgggctc attgatgatt ctctgaacat caagaccagg 360
aattctaccg gcatcttttg ttgectgcct ctgagcatca tt 402

<210> 4325
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4325

tgggaatacg ggagatcttt cttgcatatg aagttctgct ttgatatana tgtcta atgc 60
aaatggaagg ccattgaatg ttattcttgt gggaatactt tgatgagata gcttgaaaaa 120
ctagcattcc aaacatttta atgtcagctt gttatagcat gatgtgcttg ctactatttt 180
tgagttcttt gacccttcga atggcctaac tatcttttgt tttgttcata agagcttggt 240
ggaattctat catgggcttt tgagcactgg tctcatgtca tttggaccac tacaacataa 300
cctatcttca aagca 315

<210> 4326
<211> 384
<212> DNA
<213> Glycine max

<400> 4326

tctttaggac cttgaacaag caatttactc ctctttcaga accatgctat gtgctcggga 60
ctgggtctctt tcttccctcc gcaacttgag ttactattg ctaccccata gagctccggg 120
aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180
tgcggttaatt tcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
caacatgata ttctccttgg caagtgttgc ctttctaact tcgcttttga gagcttggac 300
ttcttcgtcc tcttccggtg cttcaaaact ctcttcgctg acgactttta acttggcgag 360
ccaatctaaa cctcgatat gaac 384

<210> 4327
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4327

tgagatgagg aagtgtagaa aggtgaaacc tgtgatgtac ctgtgatgta cctaagcagg 60
 caagctcctg gcagtcaca gataaaagga acaaagacca caaagcaagg aggcttgtgt 120
 ggtggctggc cagctgtgaa tcttgtgtga tatatgggtt atggcctctg gtaatcgatt 180
 actaagggtg ggtaatcgat tacaaggctt aaaaatgaag acaggaggct aagatggctt 240
 ctggtaatcg attaccaagg gttgtaatcg attaccaggc ttgaaaacga ggtcagcaag 300
 ctatgggggc ttctggtaat cgattaccaa ggggggtgtaa tcgattacca agcttagaat 360
 tgaaggcagc aggttgtaga ggcctctgg 389

<210> 4328
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 4328

tcttgtaccc ccgtccctg cagtatatac acccgatgca tcttccttcc aaatccactt 60
 gtcttctcga tccggatgga tgctgatacc ttctagatct tctaagaact ttacagccat 120
 ctccatcaca ccatcgaaaa gttgccttct ccatttaaag tctcattccc aacctatagt 180
 tgtgaagttg cccatcatct ttatgacatg ttgttgtgtt ttggaaatgg agaaaagtgt 240
 aaggatattc aacttaagtg gtactccatc ctcttccat ccatcctccc aaaatttgtc 300
 cttttctcca caccctactt tccattttat cctctatcg aaaccgctgc catctgcac 360
 taaaggatct atgatattta tat 383

<210> 4329
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 4329

tgaaagtgca taccacacca tttttcatag taaaacactg gtaatgtgtc tactattatt 60

gagatcatat ctttctttgt cattggaggt gccacttgag ctgccaggtc tctccacctt 120
 tgggcgtatt ctttgaaaga ttcgtgcccc tttttgcaca tgttctgtag ttgcatecta 180
 tccggagcca tattagaatt gtattgatac tgcccaatga aggcaaccat taagtctttc 240
 caagaatgga ctcgagaaag ttccaagtta gtgtactagg taacagctac cccgataaga 300
 ctttcttgga agaaatgtat caacagtttc tcatcttttg cgtatgcccc catcttccga 360
 caatacatct ttagatgggt cttggggcaa g 391

<210> 4330
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 4330

tcatggtgt cgagaagaaa tcacatgtgt gtcacatca aaaaggggga gaatgtgaat 60
 gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctgc ttcaaagat 120
 aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt gtttcaagat 180
 tcactaaaga ccaagccttg ccttaaaaca aagtgttttc aagacatgca aggctctggt 240
 aatcgattac caggaagtgt tatcgattac ccgaagacag gggtgacaaa tagctggtga 300
 aaaaggtttt gaatttgaat actcaacatg taatcgatta ccacatgtct gtaatcgatt 360
 accagctacg aaactttt 378

<210> 4331
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4331

tcatacaatt ctcaactctt ttagccattg ggaatgcaaa aggcatgggt ctaccttgcc 60
 ttgggtagga gccttctcac agagagaaca aaaccaatca tttctccatt tgaactgaaa 120
 gttcaagtat aaccatgata agaacttata tatctagtga atccaatatt tattccacta 180
 actgaataaa ctacaactat aatgatcctc anagcacagg ctctttaaca gggtcacaaga 240
 ttaacaactt tgtggatgtg ttgtatttaa gctgcttgaa catctcacia taacataaaa 300
 catatccaat aagtaaagct tattccatgt ttgc 334

<210> 4332
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4332

ttgcggattt ggtcttcgct ggcgaaatga tcgaagtggg tctaaaaaga ggcaaactctg 60
 atcatcatgc tttgataaat gcaaaaaaaaa aaattggggc aagtgaagag ggtgagaata 120
 agggacaaac ccatgctgtg actgccattc ctatacagcc aagtttccca ccaacccaac 180
 aatgtcatta ctacgccaat aacaaacett ctcttacct accacccagt tatccataaa 240
 ggccatccct aaatcaacca caaagcctgt ctaccgcaat tccaatgatg aacaccacct 300
 ttagcacaaa ccaaacacc aaccaagaaa tgatatattgc agcgaaaaag cctgtagaat 360
 tcacccaat ttccgtgtcc tatgc 385

<210> 4333
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4333

agatggaggt tttnttttca ttagtcatcg atganncgct agacnagcaa gacncacgct 60
 tgctaggtng acggtctaag ttcagattgg aggcacttca tccacgtttc taacttgagt 120
 accggcagcc gcttgggggg gaggctaggc aagatcccta ctgggaggat aagggtgccac 180
 ctctaggctt agttcataac attgtcatgc tagcatctga tctaccatta ttgtcacaat 240
 cacaccagac agagtgggga ataccaaatt cggatgcaac gtggaaacta tttgtacaat 300
 cctaataaaa agtctactgc taatcaaagc aaaatatgac gtatttgcac caagcaaaga 360
 ataagttatt cattattctc ctgcggagta aaccataacc tggaggagat cattaagacc 420
 ttgttgccg ttttttttac taagatacta cattcccagt 460

<210> 4334
 <211> 186
 <212> DNA
 <213> Glycine max

<210> 4337
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4337

tgctntcaca gttcactctc tttcataaat taggcctttc tctctttcac tccctctctc 60
 ctctctttca ctctctctcc tcattaggcc accaccagcc gattgcaaac cttccgtgca 120
 atactggaga ttgtggaccg gaagttcggc tgtgtgtgca atgtgctggc gtatggcggc 180
 ggcgcaagcc aacatcagca gcagcaccac gcgttccaaa ggtgttcaag gcgtacatga 240
 ggctctggaa gcaccagcag gagaaccgcg cgaagttggt ggagtgcggg ttgaagcagt 300
 gggaaactga cgagatcacg agctgaatcc aacagctgta ctttgggcag tacctgagga 360
 gcagtgagtg caagttcctc ggc 383

<210> 4338
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 4338

gtgtgatcaa caagtaacca tgcgttttgt ctccagactt taaagaagcg ctactaggag 60
 gcaacaaaaa attttctacg aagaagcttc ctgcgtagtg gtctatgtag ggcaccatta 120
 aagaggattc tagtgtgtcc ccacaagctg acacaggctt tgacatactc catatatgga 180
 gcgtgggaca ataattacat gggggggcaa taaagtgttc tcatttctat acagagacag 240
 gggcagctga gagatgatga ttttcgcact ttcttgaggg aggtggagct tgacaacagg 300
 gatcgtcaaa cttgtgattt attcttcatt aatgttcgca atgtctctat ta 352

<210> 4339
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4339

tgtaaaccce ctagagcttg gacaagtatt gtgcgtgtct acttctgtca agntatccgg 60

ggtggacatg cttttggttt tacaagtaag gtctaactgtg tttggtgagg gaagcctcta 120
 tatttgacaa ctctgccctt gtctgaccgg tagagagtac attgaataca aatgttatgc 180
 tttttctatt acgacaggtg tgtgcgggcg tcgcatagca ctctgtgcata tgtatcactc 240
 atggagtggg tacgtactgg agatgtgatc cgtgggtgag aagggttggtg tcatgggtgca 300
 taaaaataag acaccgaatc agcttccgcc agttaccaa gagtccattt aaatg 355

<210> 4340
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4340

actaaaaact ccgctttgca ctccactcat atcggccttg acttaatctg actaacacca 60
 tcgacatagc ggggtgtatt atggacctca tatacaaagg cttctttgaa caactctgca 120
 atccttcata cataggcgca tgtgcttggt gtaaagactc ttggtcaaag gcacgtatca 180
 tatcccccaa gtggactccc cattctacat caaacggttt atattgggac ccactctcga 240
 tgtatgtcat attaccaagc catatacacg ctgggtgaatc gttctaatacc catcacacaa 300
 tagatgctcc ccgttcgtgt ccagaatttg tcgctttcca ttcaaacaat tga 353

<210> 4341
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4341

gtgatggtgt agatatgaaa tcacatgtnn ggcattatta aaaaggggga gaatgtgaat 60
 gtgtgtatac atgattttga tgatgtccca tagaagaatc aatcagcgct cattttgctc 120
 taagattcat tcaagatctg ttcatcaaac ttattctnga ctcaagatta cttttagatc 180
 aaaccttgcc tcacactgaa aggtttcaag tcattctaag aacatgttat ttattaccaa 240
 tacatgctat tgattaccaa tg 262

<210> 4342
 <211> 294
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4342

agctntgata aagaaggcga tgggatgttc ctattgtgac aaaaccgccc ccattccgac 60
tctcaacgcg tttgtttcca ctgtgaatgg aaggctgaac tcatgcaagg ccagcacagg 120
cgccgtcgac aatgcatgtt tgagattgtc aaaggccaaa tgagctngcg ggggccagtg 180
gaagggatca acantgatga actagactaa cggagttgca atcgttgcat atccactaat 240
gaagcgacga taaaatccta ccacactaan gaagctttgc acagctttta tgga 294

<210> 4343

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4343

ntgaggctga ggacttatat aacagtatca aggttnttgt tttaagagtt tttggagatg 60
agaataattc taggatttta gaattccagt ttttactatt catgcgcact attcacgtag 120
aataaaattg attttctgca attccatttt tgcttcaatc tacaatttcg ttttctactg 180
attaatggaa agctaagtct ccagcgttgt tttctcttga ggatcaaaca catctctctt 240
tgaggttttg ttattactat tgaattctaa tcagttcttt cttcttcacc aattactctg 300
tatttgttgc tattaatcca tgcattgctta atgcttgatt aattatctct gcgcttaatt 360
tacattcatg cctaataatn caattcggtc atgattaatt gngtatgtg tngcttaatc 420
acataatgac aa 432

<210> 4344

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4344

agtcacctga ggctgcagct ntcactacat catttagaag cggtcaagag ttttagaggc 60
gcctaactgg ggcggataca ttctttcctt tgggtagagg tgcattcgga atgtgcaaaa 120
gagcattggg actagaaaat atgatgtatg gcaagatcta tctcagagga caacaggcta 180

acccatctga gatcacttcg ggaatcctaa attagctcta ttacaaatgt gattcgaaca 240
 tctttggagg gaatatgtcc ataaattgca tcagatttag agatcaatcc tacttgtcat 300
 tgtgatcact gatcatatga atcataattg tagttatcaa tggttgcacg catgatcatg 360
 agttgtgaac tagagatggt tgactac 387

<210> 4345
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 4345

tatgcagagc tgatgtatct catgctgaaa ttggagtctc tgaaaggggtg cctcaciaat 60
 gagctgagga ctcttaaata agccataaca tctactgtag ctacattgtc agttttgtga 120
 ccagaactat ttacacagca taagtaattt cgaattaatc atcatttaata gaaataccaa 180
 aatagttgtc ttcatttttg tagaaaggat catatttttt tgaagaatta ttatcttctc 240
 tctttgacga agagccttca tcttcttctt gttggagaag atgtacgact tctattagat 300
 tttgggccag actttctttt gatctataag tggcaaggaa aacagctaata tgag 354

<210> 4346
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4346

agcttgcgca aatgggacga gaatgatgtg tgccattaga tttattatta aaaaaggaat 60
 ggatgagatt tgttgatgtc tacctgtttg gtgggtaatt gtaaaaaata aggttagtga 120
 aaatgttcaa ttggttcggc atgcaaaatg cttcttattt gggatcgaac tcacagtaca 180
 ctaatgctcg tggccatta acattaaatt actacccttc aataaccaag taaacaacta 240
 taaattttta acgttatcta atattaaatt gcacttaana ataattataa atgattagat 300
 gagttttaat tacctataga ttacgttaaa ttatatgttt ggttttattt ttcaaactac 360
 accttttctc tcttatcttt ttttaaatta cacatanttt tggaaaaatt ttc 413

<210> 4347

<211> 217
 <212> DNA
 <213> Glycine max

<400> 4347

ctcaagtgcc acagatcatg tcacagcctt tctccttta ttctctttat gcaagaaaat 60
 aaatcctata atgggtagga ttctcactgg tcacacagtc actgcaactt atgcatgcag 120
 aattcagttt ctcagtttct atacctagaa gatattctat acatacctaa ttgtcattca 180
 atgtgatctc agtatccaag ttggatttct tctttgc 217

<210> 4348
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4348

agcttttatg tgaaaggatg tgactcttca cttttgaatt tcaacgttca aaggcactgg 60
 taatcgatta ccaaaacatt gtaatcgatt acagcttttt gaaattaatt ggaatgttgt 120
 aaattcaatt tgaaaacttt ttcaaaatag ttntgctact ggtaatcgat taccagagag 180
 taaaaactct ttggtaaaca ttttttgaga aaaatcatgt gctactcaat tttttagaaa 240
 aactttttat acttatcttg attaagcatt ctcttgattc ttgaatcttg agtcttgaat 300
 cttgatcttg atttttgaga tcttgaacct tgaatcttga ttcttgactc ttaactntct 360
 tcttgagtct tgaattcttc ttgattctta tcttgaactc ttgaa 405

<210> 4349
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 4349

tgaaggtaaa ctagatgcct tggttaacct ggtaacccat ctggccttga atcaaaaatc 60
 tacacctgtc gccagactct tgggtttatg ctctctgcc gaccaccaca cagacctttg 120
 cccttctatg caacaatcta aagcaattga atagcctgaa gcttatgctg caaacatcta 180
 caatagacct tgtcatacce taatttcgtc cggggattat aatttgatga tataacaacca 240
 ttgattgacc gcttcgagat gtttggcacc ctttggtgca caatatgtga agtcccgaga 300

cgtgtcgaaa atcaaa

316

<210> 4350
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4350

agcttggtcc ttggtagttt aaacttatcc ttgcatcatt ttctgtcttt ggaaccacca 60
ttgtatgttt tacgcttcct ttggaaaacc ctagagaaag agactttgtc aaagctatcc 120
ttttctgaaa tgggtgttat ttctgtgacc ttcatgaac tccgttcgca ttgacgtgat 180
tggaatttca aaatgatgct cttttttag aaccgtaat accccttagc cttttcatgt 240
agtgcacatga gtatttgact cagggtatcg ttgtcaacat tttttctgaa atccgtatga 300
agtttccttc attttgacgt atagagacta gcgttggacc gacaagcgtg aacgaggaag 360
agacctctaa gtgacgcaca gaggaacccg gcgngagct cacaataggt ga 412

<210> 4351
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4351

gtatgcccg gtcattcatt catatgagat gttgttgaag tattggcgat cagtattgcc 60
attccttgga ttatagggtt gaaccaagct catgctttta taaaagggt cattaagtca 120
agttgaaata tggaagtaac cgtcttgcaa aattggggca aaagatgaat cgagtcacat 180
cactgcttcg tctactgcc aacatattta ggattattga tgccttggtt acatccagtt 240
tcaccttgac aaagatgtca tggaccatgt tgaaaatcta aattgattca accccatc 300
ctgcgtaaaa attcgcaata cttcaactgt acatcattcg catacatcca tgcttttcat 360
tgggttcatt gtcatttgc ttttttcctt gaaaaataaa atanaataaa atgaacttaa 420
tca 423

<210> 4352
<211> 331

<212> DNA
<213> Glycine max

<400> 4352

agcttcccgt atccatactt ggaaggatct aattactgcc ttcctaaggc aatatcagta 60
taattccgat atggctcctg atcgactca gctgcagaat atgttcaaga aagagggcga 120
aacctttaa gaatacgcac aacggtggag agacctggca gcacaagtgg ctctcccat 180
ggttgagaga gagatgatca ccatgatggt agacactctg ccagtgttct actatgagaa 240
gctagtaggt tacatgccgt ccagcttcgc ggacctagtg ttcgtcaggg aaagaatcga 300
ggtagggttg aaaagaggaa agttcgatta c 331

<210> 4353
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4353

tactcccgct taataagtgc atntgatgta gctccatgta gagcttgtag gccttggatc 60
ttcttcatca atggagtcct ttgcttcttg aatatcaatg gtagcggaat ggagaagggg 120
gaaaggtgat tggagacgcc acgtcaagga gaagatgagt caagaacaag ctccaccacca 180
tatgaagcca tggataagag cttgaacgta agagaagata aatagaggga gagggagaga 240
aggggcacga aatttatgcc tcaaatgagg tatgaccttt gaagtgtaat ttctcanata 300
atcaaagttg aaaattgcac acacatggcc tctatttata gcctaagcgt tacacaaat 360
tggagggaaa tttgaatttc tattcaaatt tca 393

<210> 4354
<211> 401
<212> DNA
<213> Glycine max

<400> 4354

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgccaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc gatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaagaaatg aaggaaaatt cccaatcaa agagtgggag 180

aaagcaaaaa aaggaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240
 aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaaggaa gaagaagaag 300
 gaaagaaagc tcctgatcaa ggatcgaaag aaaccagaag aaatgtgcag agaggtcttt 360
 ggaccagaca atatctgaac agtacagaat tgtcccaaat g 401

<210> 4355
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 4355

ttagaaaatg atttctatac caaagttagt cgtataatgc aactaacaag gatgaagctt 60
 taagtgtgat tcctttcttt ttcttatcat tctcctcatg ttgattcagt ctcatlagat 120
 ccatttcgtg ttcctataac tttccaaata aagttgcaag agacatgtta gaaagatccc 180
 ttgattctgt aatagttgtt acctttgggt gtcattccct acttaaacad cttagaactt 240
 tattaataag atcctcattg ggaaatatct ttcctaata gaagcatga ttactatgt 300
 gtgtgaatct cttttgcata tcatgtatag tttcatttgg attcattcta aacaattcat 360
 attcatgggt taaggatattt attctagacc cttttacatc tatgggttct tcatgggtta 420
 c 421

<210> 4356
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 4356

agctatgctg atttagtttt cgctgatgaa aagatcgaag tgggtctgaa aagaggaaaa 60
 tttaatcatc ctgcttgac gaatgagaaa actggggcta atgaagaggg tgagaataaa 120
 ggagaaaccc atgttgac tgtcattcct acatggccaa acttcccacc agcccaaaaa 180
 tgtcattact caaccaatat cagctcctct cattaccac caccagtc tccacaaagg 240
 tcatccctaa atcaaccata aagcctgtct accacacttc caatgacgaa caccaccttt 300
 agcaciaact aaaacgcaa ccaagaaatg aattttgtag caaaaaaggc tgtagaattc 360
 accccaattc ccgtgtccta tgetgacttg ctcccatatc tac 403

<210> 4357
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 4357

tgtatagttc cccaatctat ggttattttg tagtcaagaa cactcaatca tccataaagg 60
 caaccctaa atcagccaca aagcctgcct gccgcacatc cgataccaaa caccaccctt 120
 aacacaaacc aaaacaccaa ccagggaagg aattttocag aaaaaaagcc tgtagaattc 180
 accccaattt ccgtgtcgta tgctaactta ctcccatatc tactcaataa tgcaatggta 240
 gccataatcc cagcaaagat tccacaacct ccattttctt gaggatacaa cttgaatgca 300
 acatgtgctt atcatggagg agttcccggy cattccattg agcattatat gaccctg 357

<210> 4358
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 4358

agctataaaa atattttctca cccataacta attaaaaaga gatttatgta tatttattta 60
 aatgattatt atgaaaaaga aatattagta ttatttttta ttttttttagc tcaacaagag 120
 tagtctggta tttctacgta ttttcacgcy caataaaaaga ataagagtta tgttgtaatt 180
 ctttgtagaa aatatttgta aattgatatt tttatattct taattttggtt ataagctttt 240
 ttgtttactt aattatgaaa tttttattgt ggcagtaaatt taaatttgat ttaataggat 300
 caattaaaag agaagtttta aaacaatcaa tcgtcacaca acttatgttt caacatctca 360
 aaattaaaaa gatgtcaca 379

<210> 4359
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 4359

tcatagctaa tattagtcaa tgtcaaccta gatatactca ccaatatatt acaaaatttg 60
 acattcataa atgtaactga cttttgattc atataacttg tgaaattata agaaatgact 120

caactcacag caacattttc tttatgtagt agaaagtgga caaggagata cccaagcaat 180
attcatcaac taaattatat tgatttaaac cacaaatatt aaaatttgga aattacatct 240
atgcttaata agactcagta ctaaccagtg agtagagatc cagagtacta accttaataa 300
aatactgata cataccactt ggtgtttctt gtgtccaatg cacgctgata atcaagaaag 360
cat 363

<210> 4360
<211> 383
<212> DNA
<213> Glycine max

<400> 4360

agcttcttgg caatccccat tccagcgatc agtttggttt ttgcgtaaga gcttgaacaa 60
cggctcacia atggcggtga gctgtgatat gaatctggca atataattca agcgtcccag 120
gaagcctcgg acttgccctc cagtacgtgg ttctggcatc tcaaggatgg ccttcacctt 180
ttcgggggtc acctctatcc ctttctggct tacaatgaaa ccaagcaatt tccctgattt 240
gaccccaaag gtacacttgg cgggggtcaa ccttaactga tatttcttaa gcctttcgaa 300
caacttccgc aggttgacaa ggtgttcttc ctgagattta gatttagcaa ttatgtcgtc 360
cacgtagacc tcgatctctt gat 383

<210> 4361
<211> 398
<212> DNA
<213> Glycine max

<400> 4361

tgaaggtagg agaagatgag tggagggaga aggagagaaa gagcacgaaa ttttatgcct 60
caagtgaggt ctaaaatttg aagtgttaatt ctcaaatgat caaagttgaa aaaaatgcac 120
acacatgacc tctatttata gcctaagtgt cacacaaaat aggaggggaa tttgaatttc 180
tattcaaatt tcacttgaat ttgaatttaa attggtggag ccaaatttgg agccaaaatt 240
tcactaatta tgattagtga attgtagcta tgattcaacc cactaatcca agatcaagtc 300
caagattctc cactaagtgt gcttatgtgt catgaggcat gtaaaacatg aaggatatgc 360
acaaagtgtg actatatgat gctgtaatgg ggagtagc 398

<210> 4362
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 4362

agctattgcg ataacttcat gtgctactca acgattggaa gaactttttt tttgtactta 60
 tcttgattga gccttttctt gattcttgaa tcatgagtct tgaatcttga tcttgattat 120
 tcttgattct tgaaacttga aacttctctt gattcttgaa ttgatcttga ctcaatcttg 180
 aaattattct catgggcttt ttgacatcat ctctgcta 218

<210> 4363
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4363

tttcgcaaatt cttacgggttt tatctgagat ctagccatgc gagaagtatc cacagaggcc 60
 aattcctccc ttccccagta ttatgatcag ccgttgagat gctttacctt tggggacttc 120
 caactgtcac ccatggtgga agaatttgaa gagatcctat gatgtgctct acggggaagg 180
 agaccatacc tcttctcagg gttctatccc ttattagcta gaatttcaaa gatagtccaa 240
 atctcggcac aggaattaga ccatggaaaa caagtcacaa atgggggtggg tggaataaccg 300
 agaaaatgtt tggaggcaaa agcaagaacc ttggcaggta gaggcgaatg agccccgctc 360
 atagacattc tcgcactggt gatcttcnga ggagtcctct ntcataatat ggat 414

<210> 4364
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 4364

agcatttgac ttactatacc aagctctatg aaccagggac ggaaaaagat ctatatttac 60
 gcttgctcac ggtatacaga ggaaaactag acatttggat ca 102

<210> 4365
 <211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4365

tgaaccagaa ccggtgagtg tgtgacctta aactgcgagt gaacgactag ctatgagtaa 60
gaatctttgc atgaatctct gaattttaga atgaaatgta taaactatga catgatgaag 120
accataattg tgcattacaa gccttttgac caaaaagctt accttgaatg ataattatat 180
tctctgcacc ctttttgagc tgaatgatat tgtcaaaaat ttgaaccctg aacttaaata 240
aatgtctcct gataccttgt ttagattcta tgagagcata tgggttcaagg caaaattacc 300
ccaaatntgc gggaagggaa ctaattgcga tgcaaagaaa anaagagaaa gcatcagcnc 360
acacaacaat taagttgtat ggtaaaataa acagagaga 399

<210> 4366
<211> 378
<212> DNA
<213> Glycine max

<400> 4366

agcttagcat gacctccgag atacaagcca tttgatcttt aaaggctgat agggcggact 60
tcattctgtc ttgcactccc tcttcattat ccattgttct ggatcgagtg ttataggggt 120
gcctctgcac tttcttagtt attgtgagtt ccctacagaa acagacaatg gtgagtatgc 180
caccaaaaca tgaatatgct catgaattat cggagcactt ggatccacct caagattttt 240
acataacgtg aagagtttca gaacttctcg ttgtataaaa aggaacaaaag cttttatcta 300
gccaagatca tacaaaagtg ttacaacaaa acctaacggt ttctaattat atgggccatc 360
aaatctatca tgtgttga 378

<210> 4367
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4367

tgtagggacc accggnacga atagcatcaa tgttcttggt cagtgaagca tggtcaccca 60
ccaacgagtt tgaagcaacc ttcatttctt ccatttgcaa atctttcccg cgaacagaac 120

tagaatatga aaccctttaa cgagaaagg tgataatgat taatagaatc ataaaaggaa 180
aagaaaaata caaacgttaa catatagatg tgcaatacag atgaggggtct tgaattatta 240
tttacctgga acctacacat atatgtattg ttgcccatga tggcccttga ggctctgaat 300
gggctttcga ttaggggtttt tggagcagaa cacaatccat aagctagcca cgaca 355

<210> 4368
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4368

agctntataa gcaaaaagta aaaatctatc atggcgaaaa gctatcaaaa aggaattttt 60
agcttgggtca acaggtattg ttatttaatt cttgattaag attgtttcca agtaagctga 120
aatccaagtg gtctagacca ttcattcatca aagaagttat gccatatgga gcagtgatat 180
tggaggaccc aaccacaaaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240
taggtggaga tttcgagagg ataactactg ttgtccagat gcaaaaggct tgaaccataa 300
cgaagacgtc caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360
ttaaactttg tcttaacttg tgttacttta atcttatgcc ttatatatct aanacttact 420
t 421

<210> 4369
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4369

tctccccaat ttctataaat agggggagat gtgatgtata anagggttct gccccttagg 60
catttctctc tctttcgaat ttgcttagga aaattgtttc cgtgaagaaa atccaagccg 120
aggcgctttc gtaacgtttc cgtgagtgat ttcgtgaagg ttttcgaccg ttcttcattc 180
gttcttcacg gttcttttagt cttcaacggg taagtacctc aaacctagct tttcaattca 240
ttctatgtac ccgtgggtggg ccacaattgg tttcatgtat ttttattctc gnttcattta 300
ctttttatac ccccttttga cgtgcttaag ccattntatt taagtcattt ctogcttaac 360

ct

362

<210> 4370
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4370

agctttataa gcaaaaagta aaaatctatc atggcaaaaa gctatcaaaa aggaattttt 60
agcttgggtca acaggtattg ttatttaatt cttgattaag attgtttcca agtaagctga 120
aatccaagtg gtctagacca ttcacatca aagaagttat gccatatgga gcagtgatat 180
tggaggaccc aaccaccaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240
taggtggaga tttcgagagg ataactactg ttgtccagat gcaaaaggct tgaaccataa 300
cgaagacgtn caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360
ttaaactttg tcttaacttg tgtactntaa tcttatgcct tatatatct 409

<210> 4371
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4371

tctcccncaa ttntctataa atagggggag atgtgaagta gaanagggtt cggcccctta 60
ggcattttctc tctctttcga atttgcttag gaaaattggt tccgtgaaga aaatccaagc 120
cgaggcgctt ccgtaacggt ttcgtgagt atttcgtgaa aggtttcgac cgttcttcat 180
tcgtttcttca tcgntcttta atcttcaacg ggtaagtacc tcaaacctag cttttcaatt 240
cattctatgt acccgtggtg gtccacaatt ggnttcatgt atttttaatt ctcgttcatt 300
tactttntat accccctttt gacgtgctta agccatttta tttaagtcatt ttctcgctta 360
acct 364

<210> 4372
<211> 374
<212> DNA
<213> Glycine max

<400> 4372

agcttcttat accaatgtca cgaggagtgt ggtagtcaga ttcatacaaga aggagctaata 60
ttgtcgatgc ggactcccta ggaagatcat cactgacaat ggcaccaatc tgaacaacaa 120
gatgatgtag gaaatgtgcg aggatttcaa gatccagcat cataactcca ccccttatcg 180
tccaaagatg aatggggctg tagaggctgc aaataaaaat attaagaaga ttgtccagaa 240
gatgaccgtg tcatacaaag attggcatga gatgttgctt ttcgccctac atggatatag 300
aacttcagta cgaacttcta ctggggcaac gccgtattcc ttggtttata ggatggaagc 360
aatactccta ttg 374

<210> 4373

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4373

taagcctcca gcttgccctgg gcgagctgng cggcaagctt ctccctcatt ttccctataa 60
aatggcgcttg gaggcttgag ggaaagggtt cagccccctt ggcaattaga tttcacttaa 120
aattagtgag gagaagaaaa aagaaggaga aaatccaagc tgaggagctt ccgtaatgct 180
tctgggacgt ttccgtgatc aattccacta acgttcttca ccattctttg tcgntcttta 240
ttcgntcttc atcctttggt gatcttcgac cggntagttt tcgatttcga agctttgaat 300
tcattctata cacccttagg ggtcaattct cgctttgggt taaa 344

<210> 4374

<211> 412

<212> DNA

<213> Glycine max

<400> 4374

agcttggaga agatgcttca atggaggtat tgaatgaggg agagaaatag agagggggga 60
gcacgaaatt gaaggaataa aagaggtata gaagtggaac tttgaagtat gtctcacaag 120
actctcattc atcaaagtta caacaagcgt tacacatgct tctatttata gactaggtag 180
cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aatactttct 240

tgagaagcta gagcttatct acacacaccc ctctcataac taagctcacc atcttgagaa 300
gcttccttaa gaagattcct aaagaagcta gagcttagct acacatacct ctctaatagc 360
taagctcacc tccttgagat gagaagctag agcttagcta cccacccct at 412

<210> 4375
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4375

ctcaagcttg agatgaggaa gtgttgaagg gtgaaacttc ctgcttttat tgntgactca 60
cagagtggta cctggagata tgtcgcgggg gtcacgagac cttgctgacg tcaggtgggg 120
tgctattgcc cataaccaag cttgaccaat caccgaccaa cccgggcata gtctgtcagt 180
gagaacctgt gatgtaccta agcaggcgag ctcttggcag tcaacagata aaaggaaaac 240
acgaccacaa agcaatgagg cttgtggtgg ctggccatct gcgaattttg tgtaatatgt 300
ggatcgaggc ctctggtaat cgattaccaa tggtgggtaa tggattacaa ggcttataaa 360
tgacgacagg aggctaatat ggtctctggt aatcgattac cac 403

<210> 4376
<211> 388
<212> DNA
<213> Glycine max

<400> 4376

agctaggaga agatgcttat tggaggataa gaaagaggga gagaaagaga gaggggggag 60
cacgaaattg aaggaataaa agaggtatag aagtggaaact ttgaagtatg tctcacaga 120
ctctcattca tcatagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaacactta cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttaccta cacacacccc tctcataact aagctcacct tcttgagaag 300
cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
aagctcacct ccttgagatg agaagcta 388

<210> 4377
<211> 282

<212> DNA
<213> Glycine max

<400> 4377

ggtacctgga gatatgtctc gggggtcagg aaaccttggg gacgtcaagt ggggtgctat 60
ttcccaaaac caagcttgac caatcccga ccaacccggg catagtcggt cagtgagaac 120
ctgtgatgta cctaagcagg cgagctcctg gcagtcaaca gataaaagga aaacaagacc 180
acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtaat atgtggattg 240
tggcctctgg taatcgatta ccaagggtgg gtaatcgatt ac 282

<210> 4378
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4378

agcttgggtg ggaatcgata ttggggaatg ccatgtgggt tcgngnattt atagactaag 60
aaatggaaat ggctttggat tttggattcg gcttattttt caactacata agggtttacg 120
ttatggaagc taggatatga gagattgaga cgaacggatc tctatggtac gtacacactg 180
acttttgctc catacaggct tgtaccaga aggtttacga atgtacatgt catttattat 240
gtgagtacgt gtattgaata tgctagctct taaatagtag gataataata tgtaaagacg 300
attaatagtt atatcttttt tttcgatacc tgagtaatac gtctattttg tttctagatc 360
aacattatat gttatatcaa gtagccatag accacgttta cgtataaa 408

<210> 4379
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4379

ctganctga tgacgcgtcg taaccgagac ctataaaact cagctttaac cgccccagag 60
aggacgtgaa ttctataaga gctttgacgg ttgaggaggt taatgggttt caaagttgct 120
taggagaaga ggaaccgagg aagaagaacc agccatgacg cgctaccgaa tcgtgactga 180
gatcattccc tacatgcgtt tcatggtctg tgattctcgc gcaacaatcg gttagttttg 240

tgcgggtgga tagcgtatga tctatgttct catacgggtc ctctccgga tgatgtgcat 300
 aatcagcttc acgtctatca ttggaatct cactacttat ttgtaccgct tatgataact 360
 gaacactagt ttcgtaaagt agtctttaat gagactgaaa gctaataaca ataccagat 420
 ggaccgactc ataattggac ttctctctc agaaagacac ttgat 465

<210> 4380
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 4380

agctaggaga ggaagctact atggaggata agacagaggg agagaacgag agagggggga 60
 gcacgcaccc gaaggaagaa aaacggagac aagctgaacc ttgagacgtg tgctacaaga 120
 ctctcattca tcaaagatac cacaagagtt acatatgcct gtatccatag acaaggaaac 180
 tcccttgaga acctttcctg agaaaacttc cttgagaagc ctctttgaca aaacttcctt 240
 gagaagctag agcatagctg ctcacacccc tctaataact aagctcacct tcttgagaag 300
 cttccctgaa aaaattccta aagaagctac agcctaacta caccaccccc tcta 354

<210> 4381
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4381

aacattgacc cttgatagac cggtcctatg cggagacact cataatactc agcttagctt 60
 ctctagggag acccctgttg ttttcctttt tgtccagtaa cagcgcggac ggagccgaga 120
 ccaactggac cacaacctcc agcaattaat acacttgctt ctacagagtt gagaaactat 180
 atcactgacc agattcacgg tgaccagctc tcgtnattct tctgaagac tcacgtgatg 240
 acantgctgc tctttctaatt tcaccaacct gctgcctata ggatgggttg gacctttgtg 300
 gatggatgga cgactgagga agatgtggct atcttgacat gaatgtgaca ctcttgaggg 360
 acatgggctt cttttgttgc gcctattggt tactattgat ataatcatgg ctttacaaca 420
 acatcttctt tttggttatt ttgcgcatgg gtagcttaga t 461

<210> 4382
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 4382

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agcttaatct ttccctatct caatagacca tcttcttgat caaaacttga agacacaaca 60
cgaacaaaac aaacaaaatg gttgatctgg aatgattaca tccaccccaa aacaaatgcg 120
aaaatgattt gaacagaagc tcatatacca atttattggg tttaagactg taaaatatga 180
aaaagatagg aaaacaaatg atataaggaa aagagagata acacaacaat gaaagtttat 240
tgcataataat agaaaatggg acaatgaaag aggtgttcat aagctctctc taactaacta 300
attcctttta tagaagtgtg cacacaaaac agaataactg aaaaacagtt ataacaacta 360
aagcagttat aac 373
```

<210> 4383
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 4383

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tcatgtattc ctagattaca agacattttt ttggagattt atccatgttc atcatatgcc 60
aaggatcgtg gattggttga tttacactaa gctcatagac tgcattcatt agatgtaagg 120
acttgctaca taatgtgatg tttgt 145
```

<210> 4384
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4384

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agcttgtaaa ttntttacac ctctgtctgt ttgtattaat tattattggt aaccttccag 60
aatatatatt cgtatatcat cattcatttt ggtgtctttc ctctgtgggc atggggatat 120
tgtcctaatt tcttttagaa tgcattttaga ttcataattt tacttgagga aagtaattta 180
ttagataatt taaattttct taatctaaaa ttgattgttt gaatgttttt ttataaagaa 240
tttaaatttt tataatttta aacaattaaa aatatagaat tttaatttcc ttctaaaaag 300
```

cgagaaattg atattctctt cttgataaaa gagccttaca aaatatttgc gtatttttctt 360
 tataacctcc cgtctctctt ccac 384

<210> 4385
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4385

tgaacataga agaatctggt tcgcattaca actcaatggt tcaacatatg aagacagtgc 60
 tatgtaaaaa tatacatata ctgatctaaa catgcaaata aatttaaata gcatatttag 120
 atcaaacaac ggaaattaaa agaattacga gcatatctct ggccattgca aattgaacgg 180
 gaagcggcgc acacactaac ctgaaagaca gttntgttct tccataccct tactcactct 240
 gaatagatga tgtatttttt ctgaatagag aagtgggttt ggtgatacaa aacttagagc 300
 accccatcct atttatagag tctgtccatc acagagctct cagcttggtta tcagacagct 360
 tgtcatcaga acgtgagata ngaagttatg aaacgtgaca tacaaagtga tcagtacatg 420

<210> 4386
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 4386

tttaggccat accaagattt ccacattaac ttctctctgt tgcatactcg tgattaaggt 60
 aattggagct tgacaaagat ccgaaaggag aaaaggtcac gaattcattc ctgctatca 120
 aaaataacaa ttgtcattga ccgattaaaa aaaatactgt ggtgctaaat aacctcttga 180
 acaaacgatg catcaacaat ttcgtttata cagactaatt gattaattac tcactttagt 240
 aaacagtata tgagaagcat gacattaaga tagtga 276

<210> 4387
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 4387

agcttggaat atggcagggc aatcttgcta aaatcctgga tgaatctctt ctaaaaactt 60
 gcatgtccga gaaaagaacg tacttcctgc atagaagcga cgtaaggaag agaagtaata 120
 acatcgatct tggccttatac aacctcaata cctttactaa agaccaaagc ccctaagact 180
 atacctttat ggaccataaa atgacatttt tcaaagttaa aaacaaggcc aatctcaatg 240
 cattgggtcaa aaaatctaga gaggtactc aagcaaccca cttgagattt ttcactccct 300
 ttgtaaaaat cgtttacaac ttctgaacca cacaggga 338

<210> 4388
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4388

tctataccac cccatttctc ttcccctttg gcaacttcta aaatccaaag tacgtggtaa 60
 taacaacaca atagcattca tataattcaa tataacacac aaacactaaa accaaaaata 120
 atccaaacat tcataaggta aataaataat ccaaacattc ataagtcaaa ccacatagaa 180
 tctaatacata aaagactaaa gtccaaatac caaaagataa ctaaagtgca gaaaatgata 240
 gcctanagat catagccaaa tacacggctt ataagaaaag agaactataa actaaacact 300

<210> 4389
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4389

agctnttagg cagtaaaata gtataaaatc taatgaaaga aaaaataagt tggaggaaaa 60
 taatcataag ctacaaatgt tcaatttcat aaaaaataac ttttttctta gaaagaaaag 120
 cattttgtaa atttaattta ggattccaaa tatccaactt aattgtttcg gaaaaaactt 180
 aaaaaaaaaac agttaaaatt ttagattatg agttctccca aacattttta tcacataacc 240
 ttatatttcc tagattaata cttaaccttt ctactatttt tgtccctttt ttttctctct 300
 tcttcaatca atttaattct ctcaaatct tatctaatat tatcaagtgt cttaatttag 360
 tcatatttac tatatttttt taaataaaat gttaataaaa aaaattaatg aaacatataa 420

agc

423

<210> 4390
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4390

tattgtgtca cttactntnt ggtagggcg tctcaatttc atgtagctc ttagattttt 60
tttttttatt aatccctggg tgtattcatc atttcattaa tatagaaatg atgagctgat 120
ttcataaaaa aaaagtctga gatggacttt tgtgctaaac aaagggcaac gagtaaaata 180
tcaaattagt ccttcatttt tagaagcact gtcaatttga tccctgagat ttaaaaaata 240
tcaaatgat cctcgatttt acatttcgtt tgccacgtta gcccctgtca ttaataatct 300
cctaagaccg ctagtaaagtg tgtgatatga cacgctaaat gtcacctaga cacacacgtg 360
aaact 365

<210> 4391
<211> 417
<212> DNA
<213> Glycine max

<400> 4391

agcttcttag tcttggtga tgaagatgaa ttcgtgttta cttcatgcac tcttctaattg 60
acaatagcat catcacttct atcactaaat tgatgggagt ttgaagccat cttctcaatt 120
aaacttctgg cttaagtagg ggtcatgtct ccaagggctc caccactggc agcatctatc 180
atacttctct ccatgttact gagtccttca taaaaatatt ggaggagaag ctgctcaaaa 240
atctggtggt gagggcaact ggcacatagt ttcttaaadc tctcccagta ttcatataag 300
ctatctccac tgagttgcct aatgcctgaa atatcctttc taaagggtgt ggtcctggaa 360
acacgataat attttctaaa aagaatactc tcttgaggcc gcccatctcg tgatgga 417

<210> 4392
<211> 329
<212> DNA
<213> Glycine max

<400> 4392

ttaccagaat ttctaggcga aattcatggt aaatatatatt gatgtgctct aactcatata 60
tatatatata tatatatata tatatatata tatacacaca cacacacaaa tattaattac 120
aaagacatct agaaaatttt gttttctctt tcacaatatt aacaaagtag tgaatagaat 180
aatataactc aagaaaaaga gtagaaaaca ccctcaaatt tgacaagaga gttacaaagc 240
atttctttta ctggcactta atagaatttt tgtagttaca tgtaactagt gatgacattt 300
atcatcttcc atggattaga aatgactct 329

<210> 4393
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4393

agcttggttc aaccccataa cccaaggaat ggcaattttg attgccataa cttcgacaac 60
atttcataga gatgaaagac tcgggaatac atatgttatg catggaaaat gtaattatga 120
gattgagatg cccgaagaaa catcatttcc tagttaacca cacattaggt accatgctca 180
atcatttagn tntgggtttt ttcttttttt tttggaaata ggtttatgat cccaacatgg 240
taggctcatg gtacctaaaca catgaaacta agaatgcatt gtgaattttc atgcttcctt 300
tttttgtttt tgttttgtag aggaaaatgc aaggatcatg catgagtaaa catgacaata 360
aaaggtatgc aaaaagcatg gtagatgcag atgcatggtc atgaaatgac 410

<210> 4394
<211> 309
<212> DNA
<213> Glycine max
<400> 4394

tgaggcacct gccttttaac ctaatgtccc caaagtggtc ttacccaagg atcttgtttt 60
ccatacatta cgaaaattgg caccttgatt ttttgacatc taaatggaaa attaaactta 120
atagtattat ttatcatttt ttgaatttaa tttcagaaac caaagttcat tctgaaaat 180
tcagtagcat gttatgtcaa ataacacttg ctgcatctga tccccacatc cctataaaga 240
ataacttcag attttcacat cccttaogat atattttgct aagtttcaca acctcacaca 300

caaaagatg

309

<210> 4395
<211> 394
<212> DNA
<213> Glycine max

<400> 4395

agcttttgagc tttgaacacc cagcagtggt tcagcaccct agtagcaaca gtgtatgttg 60
ggttttcttc gagccagact tccaagaaca gtgtaagggg ttctgtgggt tcgagcgagg 120
acaatgtggg tgttgaagga gcattttccg gcagatttca ggcgggagga gaaagagaag 180
agcgatttta gacaggagga tgacaaagag aagagggagg gaaaggtttt cgagcgcgcg 240
gggcttgtga aatctcaagt tttaacttat aaacataaca acatcggttt tttatggata 300
accgatgtta actgaatata aaagctgatg ttaacatcaa atagattaca tcaatttttt 360
aaccaaaccg atgttaaata aactccctaa catc 394

<210> 4396
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4396

tagtaaatat ggtccaatga aggaggtgaa gttttattga gaaggcaaata gggaagtcga 60
atggctattg tcaagttgag ttatttgacc cttttgctgc tactacttgc aaggaaggga 120
tgaatggatt ttttttaatt ttaatttaata ttttcattct aaattaattt taattttaatt 180
aaaatatgat gttatatcag atgacaagtg gtcagcatac atgtcacact taatctaacg 240
tgatatcaca agtagtttgt cgacgtatca aataaataac cacatcagca attaattggat 300
cctttntaac gacagagacc tcatacaaaa ctttttaatt atagtgaccc atctcannaa 360
tgaaaaatta tgaggaatca aatgtaaaat tcaagtatat atcangggat caaaatat 418

<210> 4397
<211> 366
<212> DNA
<213> Glycine max

<400> 4397

agcttatctg ctataagtta gaagctaaat aactaaaagc ttatatcttc tagctgattt 60
aatttacagt atttaataag actaatatth aaaaaatata aatgtcaaht gatgaaaaat 120
tatatatthta ttattttctaa catttaaatt ttatgtctaa taaatttcat cttaaaaaagt 180
aggtaaaaatt ttaatctctt tttgttgggg tttcaatgct atacaatgga ttatgcataa 240
ttttgatatt ttatcatca actctgattt agaaaccaa tattttaacc ataaatccaa 300
ataaacaatg caataattca ttaaaataaa tagtttgaca ttaaataaat taataaaaaa 360
gtagaa 366

<210> 4398
<211> 440
<212> DNA
<213> Glycine max

<400> 4398

ctcaagcttg taggctacat ttacaacat acattggctt tgaactctat gaggaaattc 60
acactttaaa ctgaattaga gacatggagt tacaagattt gctaccactt tcttaacttt 120
gcaaagattg cataagcaaa aggccaatct tagaaggatg ttttaattcag atgaatgggt 180
gaagtctaag gcagctaaag agcccaaggg gaagcaagca acagatgttg ttcttatgcc 240
atcatttttg aatgatgttg tttatgcttt aaaggctatg gggcctcttg taagtgtgtt 300
gaggttgggtg gataatgaaa aaaaacctac aatgggtttc atttatgaag caatggatag 360
ggccaaagaa gcaattcaaa gagctttcaa taacaatgaa gggaagtata aggatatcct 420
ttgcatcatt gataaaaagat 440

<210> 4399
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4399

gaccttaag tcacctgagg catgaagctt ggtacctct tcttcactac atcaagaatc 60
accgggttga gtcttctctg tggctgttgt cgcaacctac ccttcggcgg gaggggtgacg 120
catgactcgc ggggtgcatgt tccaagaaag gaatatgcgc ggagtcgcca ccaacgttta 180

tttgaggaaa acgtcagaaa aactggaaaa gacgtgatct acgaacttta agtgaaaggt 240
 tcgggagttg tatttacgca cggggaaggt attagcaccc cacacatccg tcacaagaga 300
 cgacaacctt tattcaaagtg tgcaaata acttcaattt atgttatctt tcctttttac 360
 gtacttatgt nctttttatg cctttttata t 391

<210> 4400
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4400

taactccttc actgtctttt aagggttgta gtacgaccat gttgcaggat ggatgcatga 60
 aaaccagggt gctatgctta atgaagaaac cgatcaagat cagccgaatt ggggtgcaagc 120
 atgtccccta gactttgaat tgagaaattg gcagatcata gagcaacccg agatttatga 180
 tttgatgtaa ttaaaccattc ccagatccta ttgctatgcc taaggcttta ggattcacat 240
 gttgttgagc gtacttttct tttcaattct agtgatcgnt aataaaatgc atttcaaaga 300
 catatttctt tctgcatctc ttaacatatt tattttcggt gcaattaaat gagttgctgc 360
 atatctaata at 372

<210> 4401
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4401

agcttattgg atagaatact ccaagaggat tgggctagag cagctaaaga aggccctagg 60
 attctcatga acctcanggt aaaattttga gcccatgggc caaggctggg tccactcttc 120
 tttgtaaata ttagaatagg ttttctttct tttaggggtt gtattttgat gcaatnctac 180
 cccttaagct tattggatag aagactccaa gaggatcggg ctagagcagc taaagaaggc 240
 tctaggett ccatgtacct cagggtagat ttctgagccc atgggccaag gctgggtcca 300
 ctcttctttg taaatattag aatagtgttt ccttctttta ggcttgtat tttgaccatt 360
 ctagtagtat aggaatttac cct 383

<210> 4402
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 4402

tgaattgaac aatggaagat cttgagaaat tcaatcggtc ttaacttttc actcggaagt 60
 ccgattcacg cgcataatat attgagacgc tctcgtgaaa ttcaaattgt cataactttt 120
 cactcagagg tccgattcat gcgcataata tatcgagatg cacataattg aacaacggaa 180
 gctctcgaga aattcatatg gtcatacctt ttaactcgga gctctgattt aggcgcataa 240
 tacattgaga cgctcgaaat tgaacaatgg aagctctc 278

<210> 4403
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4403

agcttcatgg gaaaccagtg gttgaagggc aaggttggat ggtgaagttg atgtgcggga 60
 gtcataatca tgaattgcga agtcattagt tggacatcca tatgctgagt gattgactaa 120
 ggatgaaaag ataattattg ctgatctgac aaagtcaatg gtcaaaccaa gaaacattct 180
 gctaacgttg aaggagcaca atgtcaatag ttgtacaaca atcaaacaaa tatacaatgc 240
 aagaagtgca tatcattctt ccattagagg aagtgatact gaaatgcaac atctaataaa 300
 gcttcttaaa cgggatcaat atatttggtg gcatagatta aacgatgaag atgtggtacg 360
 tgatatcttt tggatcaccc ctgat 385

<210> 4404
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4404

tgtagaaatt gattacttaa ttttttttgg agacaatgat tgatttattc atgaatctct 60
 gctttaatcg attaccatgt gatataattg attacttctc ccttaaaaag tgtatcaaaa 120
 gttatcaaga acacattgat caattacatt gaggatctag tcgattacat tgttcttaaa 180

agttttctag ttctcggaag aacactntaa ttgattgaaa tgataatata atcgattaac 240
 tgatggaagc ttgcttgtgg tgcttctatg gaggctggat ctttgagctt caatgaggtc 300
 ctttaatggt gattttctcca ccatggagat gtagcggaag acaaaggaga 350

<210> 4405
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4405

agctgttggg gtagaaacat ttgaccaatt cattttatct cagaaaaaga aatcatatct 60
 agtcaagggtc tgagagacca taaaaatttc ctaacgattt ctaattatgt gggccattaa 120
 gactatcata tgctgacaat acccgacaag cccatgaatc tctttcgggg cggagtaggt 180
 gtctgccatc gccttggcct ttgcttacia tcggcggaagt tcttgactcc cgttcaagggt 240
 aaaagcaaac cgatccatcc acatgggttc ctattggtgg agagagatga tacccttcc 300
 tttagcttct atctccgata tacttgggca tactca 336

<210> 4406
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4406

tttcgattca ttctatgcac ccatgtgtgg tccacattgc gtttcgtgca tttttactct 60
 cgttctgtgt actttttata cccctcttg acgtgcttaa gccgntttac ttaagtcatt 120
 tctcgcttaa cttataaata aaataaattt ccaccgaacg tttgaattat attatccgtt 180
 aacttcggtt aaaatcattt ccgaccgttc ggacgtgccg taaccacgtt ggaaatcaaa 240
 aagaggtcaa aaataatata ataataaaaa aatatctttt ttagtgaaat aaagcggaaa 300
 atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattgat taataactaa 360
 ggtgaaacta aggctaacat caactcgcct agtcgagctc g 401

<210> 4407
 <211> 374
 <212> DNA

<213> Glycine max

<400> 4407

agctttggct attcaactat cataatTTTT gactcgaatg tatgatcgat gccgattata 60
tatcccgaca ctcaaatgg aacaacagaa gctcttgaga aattcaaatg gccaaaactt 120
ttctctcgga tgtctgattc acgtgcattt tatatcgaga ccctcgaaat tgaacagggg 180
agttttggca aatatcaatg gccatatttt ttagtcgaat atatgatcga cgcccatgaa 240
atatcgagac gctcaaaaat gaaataagac agctcgcgag aaattgaaat ggttataact 300
gtttacctgg atgtgagatt tacgcgcata atatattgaa gttttgaaat tgaaaacgaa 360
aagtgttggc taat 374

<210> 4408

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4408

tcacaacaca gcaacacatt atctaggngt ccaatacact cttaatctaa gggagtntct 60
aggtttgaga agtgaaaccg agaatgaggt aaatttgaag caaactctca cctcacacaa 120
gtccataaca tgaatttaaa cttgttcaaa ctggatttac acctaaaatt tcaccgaatc 180
aaaatttgac ttttcaacac ccaaatttac cctagaaatg gctctttgtt cactttggtc 240
atttgttttt ctctctagca cagcccaaac tttctcacat gttctaaatg gcatttcatg 300
ctaggattaa ctcaatttaa cctccattta ccacagaatc cagattgacc ttccaactct 360
catagcctca cttctttttc actcataaca ccacattctc ac 402

<210> 4409

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4409

agctattcac ttttcatcga tggacaaatt atgtcctgat atcaaaaaat aaatttcac 60
atcctcattg cataattgaa tgaggaaact tgtgagaaaa acaagaatac tgagggtca 120

gccatgagca cataaaaatt gagaacgaaa acctattgag gtagtcctac aaccaaacct 180
 ctgcagaaaa tacatagttt tgtaaagatc cagtactgaa gcaaataaac atgttgagaa 240
 aaatgttgtc aataaagaaa gatataagtc atgtggtaat cttggtcctg cgcctattga 300
 acccctacaa aacgagcata atccaccac ctgccaagga aaaatacaga anatgaccac 360
 tg 362

<210> 4410
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 4410

tagatgtagc ttttgggaga ataagagcat gccaacattc ttagatgtaa tacttgggga 60
 aaaaagagaa taccagtcca attcctatgc caaatacaag tctcccaagc accaatacag 120
 gaaaattagg agctaagtct gttacaagag ctccaacaag ataaactact gcagctccaa 180
 tcagcttctt tcttctacct aaatataaaa ttgtcacag cagtttcacc agggaaggaa 240
 atagcgaaga ttataactga caaaaaggga aattacctaa gaagtcagca acattgaagg 300
 ccaacaagga gccaatgaag gcaccataca atgatccact agtctgcaaa agaagcaaat 360
 gccattgcc cagtttatat tcaagatcaa tatatggagt aattac 406

<210> 4411
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4411

cgcgcncann cncncncnnt ttganncntt gcattgtncg tagtatagan gacgtaagct 60
 tctagaanac tagtggtttc tgaattatat gaagccagta tataaacatc ttatccttgt 120
 ataccagttt cactagtgtt agccttgatg tacccttcgt gacagggtag acgtggggac 180
 acacaccaac ggttcacctc tctccttttt tctccttcaa attcgtggcc ccccccttc 240
 tttcttcctt ctttttttcc tccttgaagc atcctctcca agttcttatc cagggtcacc 300
 ttggggggga gtccttctt cctggcttat tccctaattg aagggccttc tctacccctt 360
 ttctttgttt tcgtgcgtct catggggaac aacccttcaa ggccccttg agcctcaaga 420

ccgccctcta aaagccccac gcaggctcat aagtacatgc gggccg

466

<210> 4412
<211> 209
<212> DNA
<213> Glycine max

<400> 4412

ctttccattg atgacaattt tgcattgttt atgtatgtct tggggggttc cctttatcaa 60
tgtaacgctt cccacttgcg gtagtataaa taggtcatca tgtggattag tgtggaatct 120
ttgacgatgc aggaagcaag accttgccga tgtataggta ggaccatggc ggtcttcgaa 180
aaagtagatg acaaaaaatc atcttaggc 209

<210> 4413
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4413

tctcaaggaa gttntctcaa gaaagcttct caaggaagct acctagtcta taaatagaag 60
catgtgtaac acttgttgaa ctttgatgaa tgagagtctt gtgagacaca actcaaagtt 120
caacttctct ccttttttct tccttcaatt tcgtgctccc cctccctctt tctctccctc 180
tttcttttcc tccattgaag catcctctcc aagcttctta tccaagggtc atcttggtgg 240
tgaagctcct tcttccatgg cttattcctt aatggatggc gcctcctctc acctccttcc 300
ctttgtcttc cgctgcatct ccatgggtga aaatcaccat taaaggacct cattgaagct 360
caaagatccc agcctcatag aagccccaca agcaangctt catc 404

<210> 4414
<211> 116
<212> DNA
<213> Glycine max

<400> 4414

tagatactaa gttccgttc ccgagagcat ctcttattta agcatttcag cctttgcttt 60
ctttagctt aggaataatg ccatttcttc ttctttcttt ctccaaacc catttc 116

<210> 4415
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 4415

tctgattgcc tttgaagttt gaaacctctc cagacatatc tcattatcac tcttcgaggc 60
 agaattttcc acgttgccct ttgtgctgag aataaaatat tcgcatccaa atggatgtac 120
 attggctggg tgggtttcac cccttcata attcataagg agtatttgta agggtaggtc 180
 ttatgtaaac tctttttgaa gataac 206

<210> 4416
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4416

agcttatttt catcaaactc tatgttaata acttcttcaa ctaccaaggt tcttgagtta 60
 tacactctga gtgcctttga agtttgaaag tatccaagaa atatctcatt atcacttttc 120
 gagtcaaatt ttcccaagtt gtcctttgtg ttgagaataa aatatttgca tccaaatgga 180
 tgaaaatatg ttatgttggg tttcatccct tccataattc ataaggagta tttttaaggt 240
 taggtcttat gtaaattctt ttttgaagat aacaagtagt attcactgct tcaaccaga 300
 agtgtttaag ggttgaatta tcattaagca tgggcctagt catctcttgt agatatctat 360
 taattntttc aattaccct g 381

<210> 4417
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4417

agcttctcat ccttagtaac agctactact ggacacacac aactacatat tgtgttcctt 60
 ctctgaattt cggaagtaat agtccttga ctactcttct aatttctttc cctctaattc 120
 taagggatgg actctacact ttttgggata tcttttactt aggcctcatt gatgaattta 180
 tttacatgca ctcttttaga tttgaatcta ctaactccac ctagagcggt ttggctatag 240

aagttccttc taataacggg ataattatct cacttgacat taccctcact ttttggcact 300
tattccttgc aattttctcc ttcaaatttg aacaatttat agagtgatat ggagctagtc 360
gttggtgtga ccattggacg atgaattcaa cattcaaatg ttgcatgagt ta 412

<210> 4418
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4418

ngctctanat ttacattgat gtttgtatth atgggaggaa gttgcatgcc atttttgttt 60
taagagtagt gtcccaactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
acccgaagaa gcttgccctca aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt 180
ccgctccgga gtatgacagt cacctgttta ggagcgctgt acaccagcag cgcttcgagg 240
ccatcaaggg atgggtcgth ctccgggagc gacgcgtnc a gtcacatggac gacgagtata 300
ctgatttcca cgaggaaata tggcgcccg cgtgggcatc actgggtact ctca 354

<210> 4419
<211> 412
<212> DNA
<213> Glycine max

<400> 4419

agcttgaaga gaatggaaga gggaggatat taaaacttga gatagcaaca tggaaagaaa 60
tgaaggtgtt tatgaggaag acattcttac caccttcttg tgagaaagat gcttatgaaa 120
ggcttcaaaa cctcacacaa ggtagcaaga gtcttgaaga gtaccatcaa gaaatgataa 180
tgactatgag gagagctaata tacaagagcc taaaacttcc atggcaaggt tcctatgtgg 240
gcttaataga gacattcaat gcattgtgaa gttgaagcac tatgaaagtt tggaggatat 300
ggtgcagaaa gccaaagaaag tggagagaca acctgagagg aagcattcct acaagaagac 360
ctatcactat gacttttcta gtggtaaaga caagtccaag aaggagggat ct 412

<210> 4420
<211> 421
<212> DNA

<213> Glycine max

<400> 4420

tatcataggt ggggtagttg agggaggcac tatgaatttt ttcactaaaa taatttatag 60
gggtgccacc ttgtaacaat acagctccaa ctcccactcc agtggcatca cattctagct 120
caaaagggtt agaaaagtca ggaagagcta gaacatgttc cttattaagc ttttctttga 180
gaaaagcaaa ggcttgctct tgtttttcac ccaagtaa at gccacattct ttttactag 240
ctcattgaga ggtgatgcaa ttgtagagaa attaggaacg aaccttctat agaagcttgc 300
taacccatgg aagctcctaa tatctccac actttttggg gtgggccatt cttggatggc 360
cttgatattc tcagggtcca cttggacccc atttctacca actaccaacc ctaagaaact 420
a 421

<210> 4421

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4421

atatatagat tggctgcttc aggcgctttc cagaatttct tttggagcac tcaaacacgt 60
acatggccaa ccatcacaac taggggaggt ggatcaatgc gagaactatg ccttttgtgg 120
tgaaaattct atttgcatgt atccaaatat tggccttctg ttttgtttgc ttgtttaagc 180
tttttgtaag agtcggcttc atatatagcg atttccggta attatacatt ttgtatataa 240
aatgtgtctc tacatggggt tgattatgat tcttaaataa cagccaatat tactttatat 300
atatatatat atatatatat atatatatat atatatatat atatatatat 360
atatatatat ataagagaag ccatgccn 388

<210> 4422

<211> 361

<212> DNA

<213> Glycine max

<400> 4422

tgccgcgaca cctaaattcg atgtacggca aatcctcatg cgggatcagt tggaacatgg 60
atgccagagt ggcaagggca tcggccatct aattctccac tctggggatg tggtgaaagg 120

atacatcatc aaagtactct atcagttttc taatgtaggc ctggtagggt atcaacttat 180
gatccctggg ctcctattct actttcaatt ggtggattac caaggctaag tccccatata 240
ccttgagcaa cttgaccttg aagtcaatth ccgcttgat cccaagggca tacgcctcat 300
attcagccat gttgttcgtg cagtcaaagc ccaacctagt cgtgaagggt atacattgat 360
c 361

<210> 4423
<211> 403
<212> DNA
<213> Glycine max

<400> 4423

agcttgacac aatttatctt tctcaaactt gagtttctga agaccaatta ctaagtcttt 60
cgtaactaga tgagttagat tatgcatatt agtatgtgca gtcctacaat gccacaacca 120
tgaatcatct attttactca ccaagcaact aagctcatga aaagatgcat gctcaatatt 180
cagcatatag atgttaccta ttctcttacc aagggtggaca actttaccgg atatggcttc 240
acttatcaga caacaattht tggtgaattc aatcttgaca cctttatcac aaagttgact 300
aatgcttata agactatgct gtagtccatc cacatataac acattcttta tctgattttt 360
gaggtgatcc cctatattht cttctcccat tatattacct ttg 403

<210> 4424
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4424

tgcatatgga attgcgaaag cccccctcca tcatgaggat ntgttctctgc catctcaaac 60
aaacatatca aacgtatcaa gacaaatata gttggtgttt gaatacctcg cccactcaag 120
tgtatcacac aattatggct tttctctaatt gaaacactct tgctttttac cactctaatt 180
ccccctgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240
atgtgtaagg taacgctaga gagacaagga aaagggttaac caagacaaag gctaacaatg 300
ttattaggca caaatgaagg aaataaaaatt ctgaatctat gaattcaagt aacaatc 357

<210> 4425
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4425

agctntataa ttagtagtga ccatacccta atatagaggt cagtgaaatc tcacaagtgc 60
 atatctttgt tctcatgtga aacacactgt ttggctctag ctagcttttc ccttgccatt 120
 ttctacctag cctttcagag atcacatgta gtgttcctt catttcattt ggaagcaatt 180
 tgaaagatat cactctttga aaatgagggt cctctgtttt ttcacttttt gctaacaatt 240
 agcatacata cacgagctac aagcttagtc aactcaacta agattacgct atgcaaaaagc 300
 tgcaatgtgt ctaatgtcta tgctcgagcc aaagcttctt attagaaact tttgtgaggt 360
 ttatagatac aatacaattt acaaacgttt ggatagaata agttactta 409

<210> 4426
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4426

tcaatttgct tggatagcaa cttgttatgt gccaaacaatg catcatatga tgaaagttcc 60
 agcacgcttc ttttggttgg gatgtccttc agcagttctg gactctgtga agtatttctt 120
 caagaatctt tcaaccactt catcccaagt cttaagacta ttaccttta atgaatggag 180
 ccatctttgt gcctctccag acatggaaaa tgaaaacaag ctcaatctaa cagcatcttc 240
 atgcacgcca gccagtctga cagtgttgca aatttcaata taagtggcta gatgtgcata 300
 caggtcttct tttggcagac catgaaacan attgttctta atcaactaaa ttaatgaatg 360
 tggatagggt atattttt 377

<210> 4427
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 4427

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag agatggggga 60
gcacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tgtcacaaga 120
ctctcattca tcaaagttac aataagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacaccct tctcataact aagctcacct ccttgagaag 300
cttccttaag aagattccta aagaagcttg agcttagcta cacatacctc tctaatagct 360
aagctcacct tcttgagatg agaagctaga gcttagctac acaccccc 408

<210> 4428
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4428

tgaatgtagt tccatccctc cttggagggtg actgcaaatt gagttgagaa tgagcgagaa 60
aggttatcaa cgttagtgga ataaacatta tcaaagttgt atgagtagga gttgtggttt 120
tattggacaa ccaactggcgt gaagaaccac acacactctg gacattgatg ctctattatc 180
cacatctcta gtatagttag taagactccc aagaattgag ttctggatat ttcttgatct 240
ttcanatacg ttctctccac accttcccaa tgtgttcac aaccacaagt tctaataatta 300
tgattaagaa taattggtaa atgagaatat tatcattatt aaacgattaa attgagtgat 360
aataatataa aaagtgaacg ttgctattca tagttctaaa ttcattcttt cttta 415

<210> 4429
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4429

agcttggtga tctcttcatg atgatcaaca caatattgca tttgctgctt caattttggg 60
ctgcagattt cataagcaat gcatttagta tgtttacttg gtaggtttaa attttcaata 120
aaagtaatta attttttttag aatttaattt tttatgcaag gtcaatgtga gttcttggtt 180
cacaaatgta attcatttta ttaccatatt acccaattca ttaatatgat gcagtgaatt 240

tgtattaaaa aaatatactt ttaattatat ataatataga agtttttagca tttagcaact 300
 cactcttttaa cacatttttta tataagaaat tntattatac gttaaaattt attanaaaat 360
 ataaaagaaa aaagactcac aaaaattatg aattttaatt aatt 404

<210> 4430
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4430

tatgctgcaa acatttataa tagaccctct cagtagctta accaacaaca atataataat 60
 tatgatcttt caagcaacag atataatcca ggttggaaga atcatccaaa tctgagatgg 120
 gcaagtcttc cacaacaaca acagcctgtc cctcctttcc agaatgctgc tgggtcaagc 180
 aggccatatg ttctcctcc aatgcagcag caacaacaac aacaaagaca acaagcagct 240
 gagggccctt ctcaaccttc cttagaggag ttagtgaggc aaatgatcat ccagaatatg 300
 caattntagt aagagacaag agcctccatt cagactctga canattagat agggcagatg 360
 gctacttagt tgaaccaagc tcagtcccaa aattctaaca aattgtcttc ac 412

<210> 4431
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4431

agcttgctga atattccaat gtagaatatc ggttgataa aaaaaatgta gaaaacaatg 60
 gagaggaagt attgaagtaa cactaactaa taaatatttc ttgagcacca ttgcagatac 120
 tcccaagtcc caccatagat gttgggtcaat cttgttgctt tctaactagt ctcaaataac 180
 atcactcaat caaataatca aatgaaaaat caactcatat ctcatgcata ttaatttttc 240
 acttcaccgt atacaattat aaaatccttt tttttcataa gctataaatc aaatacttat 300
 atatcaattg aaaatatctc ataaggtaaa atctaatacca acctttacca taagcttttg 360
 ttaagcaagc cagacacana catatac 387

<210> 4432

<211> 389
 <212> DNA
 <213> Glycine max

<400> 4432

ttagaacaag ctaaacaatgc atactattaa ctgaaacata aatatatacc cacattataa 60
 aatgtgctaa aagcacgaaa tgataataaa agtgttcaaa agacaggaaa atagaatata 120
 aatcctgtca tgagtcctag tgatgcttta aatgggtcat catatggagc ataaggggca 180
 aaatccatgg ctgcaacatc atcttcattc tcagagagct ccatcaccgg tgtcgtcatt 240
 ggggatgcct atagaataga gagctccagc acacgtgtgg tcaactgggtga tgcctgtgga 300
 gtcgtctctg gagttgcctc cgcagagtcc tcatgagtag ctaggacagt ctctgggtca 360
 gcctctggca tgtctagctc ttcgatatc 389

<210> 4433
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4433

agctttgaaa tttatataaa gcctgaagtt gttcatgtta taaaagtaa atcgagaaga 60
 acaagagaat attttgaggt aaaacaaaca agtattgtta tgctatcagt tcaactagggt 120
 aataaacaag aattgttttc agttttcacc aaatgattgt caatgcatta aatttaattt 180
 tttgagtgca tcctttttct gctagttaca gctctctagc tacttatcac aatttcacaa 240
 tattcttttt tgtatttaac ctcacattta ttataatcta ttactattta aagtatatgt 300
 ttttgaaggg tgggtgatnt acatttgcaa gttcaatatc catctac 347

<210> 4434
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 4434

tctagccaaa tgagcgtacc ctgaattaat tcctttgata gccctttga gcctatgttc 60
 ccccttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga taccctaccc 120
 ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgaggggg gggg 174

<210> 4435
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4435

agctntacag catattntag taatgacctc ctaacctaga attaaaataa cttaatgcca 60
 ttaatctagg gaattgaaaa aaacttaatg gctgagtgtg actgaaatag tggcaaccaa 120
 aagtcacccc caacagccaa cttcagccac catttggtct ccanaaggc tgatgcctag 180
 gatgccaaatt gggcccttat tacaacttga actaaacctt ctaaagccct tttagggtgat 240
 taacccaaaa catatTTTTg gtcagccaac tctacaagga ttgggccatt atttatacaa 300
 actaaacact ctaaaattga gacaaagtgg tgccatttaa ttcttctcca ttttggccat 360
 gatacaactc acaacctt 378

<210> 4436
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 4436

tataatatat tgatatgttc gaaactaaac atcggaagct ctgagaaat tcaaattggtc 60
 ataacttttc acacggatgt ccgattcggg tgcataatat gtcgagatgc gtcaaagttg 120
 aacaacggaa gctctcgtga aattcaaattg gtcataactt ttcacactga tgtttgattc 180
 aggcttataa tataacgata cgctcgtaat taaacatcgg aagctctcga gaaattcaat 240
 tggatcatcac ttttcacacg gatgtccgat tggggtgcaa aatatgtcga cacgctcgaa 300
 attgaacaac ggaagctctc gagaaattca tatggtcata acttttcaact cggatgtccg 360
 attcaggcgt atcacatata cagacgtca caatttgaca acgg 404

<210> 4437
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 4437

agctttataa gtgcgggtct gggagactaa ggtcaagtgt tcgcaatatg cgaagatgat 60
gttccaagta ctttggattt ggtacgacca tgctctcttg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacgggtttta 180
aaaagctcta tagttggggc taggctttta agttttcatt ttgttaaggc tttgtgtctt 240
ttgtttttga atctataata caaggatctt tcttcatctg ttcttgggtct ctaccattc 300
tcattcattt gcatgggttac ttctttttct aaaac 335

<210> 4438
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4438

tggtcacctc ctttntcacc acatctagaa tgatgggggtt gagtcggtgc tgtggctgcc 60
tactggctt agtccatcc tctaaaagta tcctatgcat gcaggtagat gggctaattgc 120
caagaatgtt ttctaaagtc catccaatgg atttcttgtg cttcttgagc actagcagca 180
acttctctc ttgctcagta gcaagggagg canagatgat cactgtanat tnttccttgt 240
cctcacagta agcatacttg aggtttactg ggaaggactt caactctggt gtgggtggtg 300
gctgaacagt gngaggaacc acngtaggag aagaagaaaa acgttctcgg cttgtacctc 360
ataaagcaag taagaagata tgtaccttct gcaacatg 398

<210> 4439
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4439

agcttggcac agtcatgcct tcctgatttc caattaggaa attggcgagt ggttgaacga 60
cccaagggtt tcatggcggg cataatgtaa ttcttttagct ttaaccctac aactgggcct 120
aggctttaga gtttttctcc ctgttaaggc gttatgtttt tgctatcgag atatataata 180
taagatcttt ctttcatctg ttcttgcacc ttcacccatt ctcatcattc tgcattgtta 240
tttctgttgc gattaaatgg tatagatccg acgatgagtc ctgcgaagggt actaataccg 300

agggccctga cgttgattnt gaacgagtag caaaccaagt tgaggatgaa gaagatgaag 360
atgcgnggtt tctcccgag ctagaaagga tggtcac 397

<210> 4440
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4440

tattgggcat taaagttttt gaacttcgat tcanatgcat ctagtgaaca caggaagctc 60
ccactccatg anatggaaga attgtgggtt ccagcttatg agaattccca gctttataag 120
caaagaagta aaatttatca tgacaaaaaa gttgtcaaaa aagaaaattt tcagctttgg 180
tcaacaagta ttggtattta attatagatt aagattgttt ccaggtaatc tgaaatccaa 240
gtggttcgga ccattcatca tcaaagaagt tatgccacat ggagcagtga tattggagga 300
cccaactacc anaaggacat ggaccgtgaa tggaacataa taaacactag ttagatgata 360
tttca 365

<210> 4441
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4441

agcttatnt atacacagtt ttcacttga agtatctgtt gtctcacagt cgttggattc 60
ttcactctga tattcgtcta aagtcttaag tctgttattt aatgcaaaca ttaaattgtac 120
atctcttctt catgcaaaat ccatgggtgat aggatatcgt gtcttttaca tcaacaggaa 180
agccactttt ttcattataa catgtatgca acaacaaagc gtgcttttta atgaggatca 240
acgtctttca gactgtagac tttattcttc ataggacttt gacagatccc atgagaatgt 300
tttctacttt aaagaatatt agacatagag tattaaatga aagtcttaat gtattactta 360
attgttacat catatcgtct tacgagtgca tcatctaana act 403

<210> 4442
<211> 412
<212> DNA

<213> Glycine max

<400> 4442

ctccgcttca tcagtggat aaagcacaag agcttcaaga ttgctcctt aaacctccat 60
taatatttcg ctttaccttc tcttcattg tgtgttcttc attttttttc tccatgtatc 120
tcctcacatg tcttgtgcta aatggtttta acatcattct ttagagtctc caccgattaa 180
acttgctata gaagctagat ttgaatatct atgggtcaga attcttgctc ttgttcttga 240
accatgaatt gtgttgagtt taggctcctt tgagtttagc ttggtatttt ctgggctga 300
aacctaaatc ataaaattct taaaaagaat ataaaggaga agaaaacctc acaaactag 360
agcgacttgt tcacctattg gtagtttgc atagaagaca tgtctagtca tg 412

<210> 4443

<211> 408

<212> DNA

<213> Glycine max

<400> 4443

agcttcacat gtttgagtgg actcgtctag tgaaacatct acttgatcct aaagggtttt 60
ctcaattttt aaatgatctt tggatagatt cttgaaattt cattgtaggt ttttgtaagc 120
ttttgagaga atagactagt tagatagaag ctcatgataa gcatttctaa gagatttagg 180
gtccgaaatt tacctcatct tcttagtctg attcaaactc ctgagagggt gtatttgtca 240
tcaggcatat gtgggcttct tcgttgcctt cattagatga ggtgttgctc aggtcttctc 300
tcccactgct cataagaacc ttcttttctt tagtcttgaa gaatttcttc ttatcttgac 360
ttttctccag atctagacat tcaaacttag actttttata ctgtagc 408

<210> 4444

<211> 427

<212> DNA

<213> Glycine max

<400> 4444

actcagctta agccaggcca gactcgtgca tgcagaggct tctatggaaa aatgccaaac 60
tctacaaaa aatctgattt caagcttaaa taagtgggct ggtccgtgct tgcgcgctta 120
gcgcaaactt taattgctta tcgcacatat gtggattttg gcttagcgcg cttctctcgc 180

ttagtggata agctgaagcg gtgcgcttga tgacctggag cgatgcactc agcgaacctg 240
 acagcttatac ttcttctggc ttcttcctcg cgcttagcca ctgagtgccg cgcttagcga 300
 atgctcctaa gccaacagat tggcttatcg agaaggtgaa aacaacactt tttccaattt 360
 gcctaattaa cctgagattg agagaaattg attattaaac acacaaaaca aaaatataaa 420
 ttatcta 427

<210> 4445
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4445

agcttataat aagaaagtga agtcaaattc ttttaatggt ggagatttag tttggaaggt 60
 tatectgccc atagatagta aggatcgagc cttgtgcaaa tggcccccaa attggaaggt 120
 accgtttaaa ataattcaga tctattcgaa tggtgcttat gagtttagagg agctaacccc 180
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240
 cgaagttaat ataagcatag aataagagaa atacgggaaa cataaaaatg gcgataacag 300
 taaattgccg cgaaagggca tgtgtcaata ttacatcgag aagtagaatc gaaatacaga 360
 attcgaaata aagaaatcat aagttctact aagtcatgac caaatcttca ta 412

<210> 4446
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 4446

tgtaagaatt gcaagatcat cttccttgac aactccttga taattattgc catcaatagc 60
 cagagatgac aatttagaga gtgatccaat actttcaaat ggatttccac tgaatttatt 120
 aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180
 accaattaag ttgttggaag aatctagcat gtcaatattt ttaaaagccc caatttgatc 240
 tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgattc cctatgaaat 300
 acaaggagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360
 acctatcttc cttaagttgc 380

<210> 4447
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4447

agctngctcc actatatattg gattggatca taaagtttgc acccctgaat caataacatt 60
 ntgttcactc attgatggct tggccagaca tggcaagggtg aatgatgcct atatgcttta 120
 tgaaaaaatg ttagattatg gtcagactcc aaatgcagtg ttgtatacat cccttattag 180
 gtactttttc tctgtgtgga ggaaggaaga tgctcacaaa atttataaag agatgatgta 240
 taagggtctgg tctcctattc ctgtctcctt aataattaca tggattgtct tttcaaagct 300
 ggtgaaattg agaaagggtat ggctctatct caagagataa agcctcaagg tctaacttct 360
 gatgtaagac gtattcaatt tttattcat 389

<210> 4448
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4448

actcaagctt gtcctaagct ccctttcata gtaagaggga atgtgcctct tcctaagggc 60
 actcttaaga tcattccaat actctactgg aggatcccta tggatccttc gttcgagctt 120
 gtccataagc tccttttcat agtaggaggg aatgtgcctc ttcctaaggg cactcttaag 180
 atcattccaa tactctattg gagaatcccc atgaatcctt tgttccctaa aaaggggaagt 240
 ccaccaatag agggcatacc cttganagct aatggtagcc aatggaactt ttctctcttc 300
 gctaatatga tggcaagcaa agagttgttc aaccttcatt tcccaatcta agtaggcctc 360
 aacattatct tttccatgga aatataggag gctaattgga tcctcttgaa gccttatnt 420
 cttttctctt atttgg 436

<210> 4449
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 4449

agctctgagc caaaatcctg tctcaccata taccttgacc caaggtgaga atgccaatcc 60
ttaccctctg gagcgaaaaa aagatgagaa ggaaatattt tctatcaaag gaaaaaggag 120
aatgaaattt tccaatccta gaggaagcat aacaggagag aatgattatt tccaatcgaa 180
ggaaaaatga gaagaaagga aattcccaat cacagagtgg gataaagcga aaagaaaaga 240
cagaatattc tccatcatag aatgggagaa cgattttaga gatgtccata acatgattgt 300
tcctgatcat tgaaactaga aaaaatgtgc ctaaagatct tttgaccaga tgatatctga 360
acaatacata attgt 375

<210> 4450

<211> 338

<212> DNA

<213> Glycine max

<400> 4450

tttaattgaa tccgcaccgc ccaattgtgt ctgtaaattgg tgtaatcgat taccagatat 60
tggtaatcaa ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120
atcttttcat aacatgcttt gtgtaacgga ctacatgggt tcggtgatcg attaccagtg 180
acaagttttg aataaaaagt caagagatgt aactattcca acgcgtttta ggttttctca 240
tggttataac ttttccaatg gttttcttga ccagacatga agagtttata ataacaagac 300
cttgattatc atttaataac tatttataac tttttgac 338

<210> 4451

<211> 409

<212> DNA

<213> Glycine max

<400> 4451

agcttaaaga taaattaaga ataatgattg aatatcttat cttatattct gataatatat 60
tctatcaaat acaaactgat tagttaggct aaaaatactg atataatata ttatcatata 120
ttctataact cgtaaattac cccacaaaaa ttatttactt cgaaatcttc tagctgaaat 180
ttcttgga aatttccaaa ttcaattgta agcattatta tcacagtttc agataaaaca 240
aaaataacat tacctctcta ctcttataat ccatacaaaa attatcatat taaggctatg 300

caacttcttc tgaattcttt ttaaccactt gatcaagcat aattaaaata tccaatatcc 360
aatgtcaatg gataaaaaca tgtagaatgg gagtataatt ctacatgtt 409

<210> 4452
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4452

tctaatttta ttataccact agnattatat tatcataaaa taagtacctt ttggggaaca 60
catgtcaaga ttaatagaga aataaaatgg taaacattta aattaaagga gagattacca 120
aactctgtat tctaattgact aagacatgcg acaagatggg gcaaatagtg gaagcatttc 180
catgactaag acatccatta tgataggagc cactgttaca tcccatgaca ctataataag 240
gtggagatat tacttttagta tgatacaaaa atattggtat aattcccaat taaatagatc 300
aagtaaaaac tatggagtat agacgatgga tccttgctta gacttatcta agagggaata 360
aaagagacta tactacgagt acatactcac aagatctggt aaat 404

<210> 4453
<211> 305
<212> DNA
<213> Glycine max

<400> 4453

agctattgta ttcaattttg atgcgtcttt aactattaaa tgactcaatc ggatatccga 60
gtcaaaagct attgtcgttt gaatttgctc agagcttctg cttgaaatc gagtgtcttg 120
atttattacg ggactctatc gatcatccga gttaaaagtt attgtctttt gaatttgctt 180
agagttactg ttttcaattt cgggcatctc gatatactac aggactcact tccacttttc 240
agtaaaaagt tattgccatt tgaattttgt gagagcttct atattcaatt tcgagcgctc 300
tgaat 305

<210> 4454
<211> 333
<212> DNA
<213> Glycine max

<400> 4454

tgtccaaaat gcagacaata ataattttta actcggatat tcaattgagt attgtaatat 60
atcgagacgc tcgtaatgga aaacagaagc tcgtataaaa tgcaaatcgc aataactttt 120
aactcggatg atcgagtggg tcccgtataa tatcgagaca cttgaaattg aaagcagaag 180
ctctgagcaa attcgaacga caataacttt tgactcggat atccgattga gtcatttaat 240
aattcgagac gctcacaact gaatacacia gctctaagct tattcaaattg acaataactt 300
ttgactctga tgtccgattg aggattata taa 333

<210> 4455
<211> 396
<212> DNA
<213> Glycine max

<400> 4455

agcttgtgca tccaatacct tgatgaggat gtcccatatg ttcttaagac tggactgatt 60
catttgcttc caaagtttca tggccttgca ggtgacgacc cgcacaaaca tttgaaagaa 120
tgtcacattg tctgtctcac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcattcatt agaggaggatg gcaaatgact ggctgtatta ccttgctcca 240
aggttcatca cgagctggga tgaccttaag aaagtattct tagaaaaatt tttccctgct 300
tccaggacca catccattag gaaggatatc taaggataaa gacaactcaa tggagagagc 360
cttggtgagt actgggagag attaagaaac tatgtg 396

<210> 4456
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4456

tgtatactga actgagtatt gggcactcat tgcattgtctg atatgccttt tagaggcttg 60
aaaagtgcga gaaaacaagc tatgttttct gcatttcttg gaaaacgcga tgaaatcgct 120
aagcgagcat gctgcactaa gcgagttcat caatactcat tgtatataag ttttatctga 180
agaactcgct tatcacactt actgtgctaa gcgagttcat ctttntgagg atgaacactc 240
atcctcttgc tgaactacct gtggctaagc gaggtgaat cgctgagccc gggtgactta 300

accaaatttc atggtgtag ccttgacta agccgaggtt ataggagcta agcgcatbbc 360
atcac 365

<210> 4457
<211> 288
<212> DNA
<213> Glycine max

<400> 4457

ctttgaattc ccatgttaat agctcgagga aatcagtgat gtgcacaggt aagctattac 60
atcttctggt catcgattac cagagagtta atttgttgaa aaagactttt taacttatct 120
ttcttgcccc aaccttgtga tacgttcctt ggaattccct tcctatttaa tataccctct 180
ctaagactct agagactagg ttgatcatcc atcttgaata tcattaattt ctttgtcctg 240
aataaagctt cgaacacatc gtaaactttg gcatcagtga aacattca 288

<210> 4458
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4458

agcttntcgg tatattatgc acctgaatca gacctccggg tgacaagtta tgaccatttg 60
aatttctcga gagcttccgt tgttcaattt cgagcgtctc gatattctat gcgcttgaat 120
cggacctccg agcgaaaagt taagaccatt tgaattgctc aatagcttcc actattcaat 180
ttctagcgtc tcgatatatt atacgcctga atcggacctc cgagtgaaaa gttgtgacca 240

<210> 4459
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4459

tggaaggatg cttcaatggt ggaaaagaaa gagggagata atgagagagg ggggagcacg 60
aaattgaagg aataaaagag ggggagaagt agaacttttg agtgtggctc tatagacttt 120
cattcactaa agttacaaca agtggtacac atgcttctat ttatagacta ggtagcttcc 180

ttgagaaact ttcttgagaa aacttccttg agaagcttct ttgagaagac ttccttgaga 240
agctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300
cttaagaaaa ttcctaaaga agctagagct tagncacaca cacatctcta atagctaagc 360
tcacctnctt gagatgagaa gctagagc 388

<210> 4460
<211> 149
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4460

agcttgagat taagaantgt tgaacggtga gacttcctgc tatcattggt gaccacagag 60
tgttacctga agatatgacg cgcggtcaa gacaccttga ggacgttagg aggggagcta 120
ttgcccaaaa ccaattttga ccaatccc 149

<210> 4461
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4461

tccanagatt ggaatcgctt ggtatcatac tgagctgttg gtctagaagc agagctcttc 60
ctcttcctgg atgccatcta caataaaaaa aaaaagaacc attggtttat tacactagaa 120
gtctatctaa attaaaactg aaattaaaga ctgaaattga gaacgtgcgc ttagcgagac 180
gcatctcact tagcgcgcct tatgaaaaac aacacaccaa cttaacgtaa caggccgtgc 240
ttagccggtg ataacatata aaaaaattct gcataattgg cttagagaga caacactcgc 300
ttagccacat gtttgtcatt aatgacgtgt acagcagctg tgcgcacacg gtggtcgctc 360
acccac 366

<210> 4462
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4462

gnnctagtat aggcattgtct tctccatta ttcagacacc cgctatgagg atgctactgg 60
 aggctttatt cggttccgga cgcgagttca ctatcgctac cccatagagc tcccccaa 120
 gtgttccggg catacattct cttgcgagcc ctctcggatc ttgccaaggg cttttggaga 180
 catgtgattc ttttgcagtg acccggcaca ctgcttacga acgagtgaac ccgcccactt 240
 gaacctgtcc gtggcgagac ctgccttacc taacttgcta tcgagagctt ggacttcttt 300
 ggctcttcg gtgcttcaaa gtgccttcgc tgacgacttt taacttggcg agcccatgta 360
 tacctcgat gcgaacttgt aggctgtcgt ggaaccg 397

<210> 4463
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 4463
 tctccccttg gcacatcatt agccaagaac tcggaaatca acacagttat aacaatggga 60
 gtagcagata taagtatcag agtattaaat acaataagcc agactcttta acaagaaata 120
 atcaaaccag aattcaaata acataaaatg tcaacaacca caaaacatcc aagactgaaa 180
 ttttaaaaca caagataaat aagcaaagta cttagcataa taatgtagat tctaagaaac 240
 taaaagccaa aatacacggc ttataaaaga taaataatca gaacctaaaa tctaagaaga 300

<210> 4464
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 4464
 agcttctata gaagcataca tagcatgatg cttttgatga tgccaaagat gaaagctatt 60
 caagattgat caaagtcaag atcaagaatt caagagaaac gatgaacaaa ttgtacatag 120
 tatgttaaaa gaattcctta taaaagattg cataggcttg gccttagggt aactcaacaa 180
 aacatcctac aaagttttaa agtgaaactc tgtttttaaa agaaatgatt ttctctctgg 240
 taatcgatta tcagaggttg taatcgatta ccagaagcca aaatgagttt taaacagttt 300
 tgcaaacttg tgaatttgaa ttttgaattg tgtaatcgat tacacacaat tactagagat 360
 aaaactgttc taaacatctt ttagaaattc tgaattaaat tttaaaac 408

<210> 4465
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4465

tcggaagaaa gtgatgaggt acaagcccta aaggcagatc ttgaaagagc ccgggtagtc 60
 gaagagaaac tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaagggaac 120
 gtcaatatgg ccacagctga agcctttgaa cgaaaaacca agaatgcccc gaaagaaaaa 180
 cacgaccaat acaagttttg aggggcttta tagggcaaca atagtgagct caagctccga 240
 agaggtgaaa ggaatcatca cgggtcaaag gaatgatctt 280

<210> 4466
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4466

agctntatgg ccatataaac actaaggctt atggtttttt tttccccgtt caaatcaaac 60
 caatgcttct aacaatgctc tttttatcaa tttacgaaca cattcgagtc catttaggaa 120
 tttgggaaaa aatttcattg cattcaccct ttaggggcac acacattttt tttttcaaaa 180
 atccatttat gttctgaccc gtgaattttc caaagaaaaac tggcgggtcat cttcttttaa 240
 aagcgtgtta gtttttttct tttggctttt tctttcaatc aatctctttt aagcaaaaat 300
 gattagaaaa ggtttgcaac ccgggcacag ttggcatctg agattacgct ttatcggaag 360
 gagtaaaagg cgtgcggata aaatacacag acccctattt tggcatttaa 410

<210> 4467
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4467

ngaagtgaga aagtgtggaa gagtcagtct tcctactttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgcgg ggggtcaagag accttggggg cgtaagtgg ggtgggtattg 120

cccaaaacca agcttgacca atccccgaccc aaccgaagca tagtcagtca gtgagaacct 180
 gtgacgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaggagg cttgtgtggt ggctggccag ctatggatct tgagtgatat ttgggttatg 300
 gcctctggta atcgattaca aagggtgtgt aatcgattac aaggcttaag aatgggtgtca 360
 ggaagtggag atggcctctg gtaatcgatt accaaggggt gtaatcgatt ac 412

<210> 4468
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 4468
 agcttctcga tatattatgc gcctgaatct gactttctgt ttcagaagtt atgaccatat 60
 gaatttctcc actgtattcc gtgtgacaag atatgaccat ttgaatttct cgatagcatt 120
 cgttgttcaa tttcgagcgt ctcgatatat tatgcgctg aatcggactt ccgtgtgaca 180
 agctatgacc atttgaattt ggcgagagca tgcggtgata gatttcgagc ggctcgatat 240
 attatgcgcc tgaatcagac attcgtgtga caagttatgc gcatttgaat ttctcgagag 300
 ca 302

<210> 4469
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 4469
 tctcgatata ttatgcgcct gattcagagt ttcgtgtgaa aagttatgac tcttgaatt 60
 tctcgagagc ttccgatggt ctatttcgag cgtctcgata tattatgcac ctgaatcgga 120
 cttccttgtg acatgttatg accatttttag gtactccga gattctggtg ttcaatttca 180
 cacttctcga tatattatgc ggctgaatca gacttccgtc tgaagagtta tgaccatttg 240
 aatttatcgg gagctttt 257

<210> 4470
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 4470

agcttgagat gaggaagtgt tgaaggtga aacttcctgc ttttattcgc tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca agaaaccttg gggacgtcag gtggggtgct 120
attgccccaaa accaagcttg accaatcccc acccaacccg ggcataatcg ctcaatgaga 180
acctgtgatg tacctaaac 199

<210> 4471

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4471

tgctgtccg atgcagcagt aatgatggcc tgagttatgt tggggaacgg ttacgaactc 60
ggaatgggtt taggcaaaga caaaggcggc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atgggttagg ctataagccc actaaggcag atgtaaagag aagcatcgcg 180
ggaaggaaga gcggtagtca aagctcgcgg ttgagacaag aaggtgaagg aagccccgcc 240
tgccacataa gtagaagctt tataagcgcg ggtctggggg acgaagggtca agtggtcgca 300
atatacaaag atgatgttcc gagtacattg gatttggtac gaccatgcnc tcctgatttc 360
cagctgggaa aatggcgagt ggaggaacgc tccgacattt acgcaacgag cataatgtan 420
accttta 427

<210> 4472

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4472

agcttctttc ggaccttgaa caagcaattt actcctcttt cagaacctatg ctatgtgctc 60
gcgactggtc cttttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttctt tgcgagccct cttggtctct tgatcaaggg 180
ctcttgcggt aattgcattc tcttcccgta acccggcaca ctccttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taacttgctt ttgagagctt 300

ggacttcttc gtcctcttcc ggtgcttcan aattctcttc gctgacgaac ttttaacttgg 360
cgagccaatc tatacctcgt atgcgaactt tcagccattc gt 402

<210> 4473
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4473

tgtgcaaatc aaatcactcc tacatttcat ctctagcatg cattntttct ttaccactc 60
ctcacgtttg gttttttaag gaaaaacacc ataactaaac gcgccacaag gcattcctat 120
cgcaccagat ccaaatctaa aatgatgggt gatcaagagg agacacagga acagatgaaa 180
gccgacatgt cggtctgaa agaacaaatg gcctccatga tggaggccat gttaagtatg 240
aagcagctca tagagaagaa cgcgaccacc gctgccgctg tcagttcggc tgccgaagca 300
gacccgactc tcttggcaac tgcgcaccat nctccctcaa acatagt 347

<210> 4474
<211> 404
<212> DNA
<213> Glycine max

<400> 4474

agctatataa ttggataata tgtctcacca aaaagtacta agagacatca tattccccaa 60
tacaaataaa tataacagaa ataaaccata ataataaagc ctcaaaaaa gaaatactat 120
gagaaaccat cattgtaaat aaagatttaa gccatttcct tttgttcttg ctcaccatca 180
ttgaaaaaca caacttctaa ctctggttca tcaagagata actgagcaac ctcaagagtt 240
ccattgtcat caagtggacc aaattcatct tctgcaatgt cccacatttt agttttccct 300
tgattgtatt gtggggaatt tctataaagg aggtgaagat tactatgaac acaacttcta 360
actctgtgtc atcaagagat aactgagcaa ccttaagaat tcca 404

<210> 4475
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4475

tgcaatggaa aatattgnct atttatgact ctgagggcta tctaaacaca caaaccaagg 60
ccatgatgga aaatatgtaa ggtagaaatg atcatagata ttggcggaat tatttacttc 120
tgtaactgct actaagcttg caatggaaga cattgtatat atgttgataa attttccatt 180
cactaacaca aatttgttta atttgtacgc tcaaactctat tagctcatgt gttcaatttg 240
aaatatgaaa tatctatctt acatctttta tgtggcatta tgtaaccttg tccagcacat 300
cacaaattnt tctttgattt ctcttcgcca tagagtagaa cctgtctata tagttctact 360
ttgctgtagc taaaatcaag aataaagttg cgtaagccat caatg 405

<210> 4476
<211> 324
<212> DNA
<213> Glycine max

<400> 4476
agcttctatg gaggctggat ctttgagctt caatgaggtc cttcaatggt gaatggagat 60
gcagtggaag ataaaggaga agaggtgaga ggagtcgcca tccacctagg aataagccat 120
ggaagaagga gctttgccac caagaatgtg ccttgataa gaagctcgga gatgatgctt 180
caatggagga aaagaaagag agagggggga gcacgaaatt gaaggaggaa aagggggaga 240
aaagttgaac tttgatttgt gtctcacaag actctcattc atcaaagtta caacaagtgt 300
tacacatgct tcaatttata gcct 324

<210> 4477
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4477

taaatgggtt tagttnttct cagaattggg gataaacttt ggacaccaag ttgtgcaacc 60
aaactccaca tgacagttca cttttgcaac acctaatgtc actgcactac tactctgttt 120
cactttacta ctctttgtt ttactactac tctattctat tgctaactac tattctatat 180
aacaacatta acaagaccaa tgcaatatgc aatacgcgga gataccttac gggtatccgc 240

acccttttgt catccagagg cggcgggccc gatgacaagc agagaccaag tttggtcatt 300
ctgcacccaa gatacgcgga gataccttac gggtatctgc acccctttgc t 351

<210> 4478
<211> 404
<212> DNA
<213> Glycine max

<400> 4478

agcttcatgc ttaagtatgt atggcaaaat cttattactg ttgttcaaga catacaagtg 60
agcttgtaac aaatcttcta gacttggagt gatcacatgt agtcctcttg aacccttacc 120
accactcag gaaggccaac aggtttagcc ttctcaatgt attttgaaca aaattcaatg 180
gcttcttctg caatgtacct ttcaacaata gatgcttctg gatgatatag attctttgta 240
taccctttta agatcttcat gtatcgctca accgggtaca tccaccgcaa ataaacagga 300
ccacaacatt tgatttctct taccagatgc acaatcaagt gaattgtgat gtcaaaaaaa 360
gcagggggga aaatacatct ccaactggca cagtataatt ggga 404

<210> 4479
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4479

tcaagaataa tggcctcaac aaacttctta ttcatagaag gaaattcaat taataggcct 60
cctactttta atggagaggg ttaccattac tggaaaaccc aaatgcaaatt cttcattgag 120
gcaatagact taaacatttg ggaagccgta gaagtacggc cttatgtacc cactatgggtg 180
gctggaaatg caacaataga aaaacctaca gaagagtgga ctgaagatga aagaagatta 240
gtgcagtaca atttaaaggc taaaaacatc attacttttg ccctaagaat ggatgaatat 300
tttagggttt caaattgtan gagtgctaag gatatgtggc acactttaca agttacacat 360
gagggcacaa ctgatgttaa acaatctang atacatactn taactcatga gtat 414

<210> 4480
<211> 374
<212> DNA
<213> Glycine max

<400> 4480

agcttgaagg tgtgtaaccc accattgtcc atagtagaat actggtaatg tgtctactat 60
cattgtcatc atttttcgtc attgaggtgc cacttgagct gccaaagttct ccatttttgg 120
gcgtattctt tgaagatcc atgccccctt tttttgcaca tgaattgtag ttgcatccta 180
tctgaagcca ttataccaac actgcctaac gaaggcaacc attatgtcct cccaggaatg 240
gactcgggaa ggttccaagt tagtgtacca ggtaacaact accccagtaa gactttcttg 300
gaaggaatgt atcaacaat tctcatcttt tatgtatgcc cccatcttcc gacaatacat 360
ctttagatgg ttct 374

<210> 4481

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4481

tcttagtctc agctgatgaa gatgaattcg tggctacttc atgcactcct ctaatgaaaa 60
taacatcatt tctggcacta aattgctggg agtttgaagc catcttctta attaaatttc 120
tggcttcagc aggggtcatg tctccaatgg ctccaccact ggcagcatca atcatacata 180
gttttttaaa atctctccta gtattcatat aggctctttc cactgagttg cctaattgcat 240
gaaatatact ttctgatggc cgtggctctg gaagcagggg aatttttttt ctaagaatac 300
tctcttgagg tcatcccagc tcgtgatgaa ccgcggagca tggtaataaa gccagtcctt 360
tgccactccc tctaaagaat gangaaaggc cttcagaaat atgtgat 407

<210> 4482

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4482

agcttgaggg ttctcttaac tcaatttatg caagtctcca tctcaaatca caaaagcacc 60
gaatcgacaa ttaaaaatct tgaagtgcaa gtaggccaac ttgcaaaaga acttaggaga 120
agtctaattg gaatttatgg ctaccatgga gcctaaccct taggagcatt gtaaagcagt 180

gctcataagg agcatgcatg aagagggcct agctcatgat gttgttaagg gtgtagttga 240
 ggatgatagt aatgatgagg aagagaaaaa tatagagaga gagagagaga gagagagaga 300
 gctgtgtgtg gaaaatgcag acnaaatgat gaaaataata acaattgtct taaggagggt 360
 gggattcat gaggtcttaa ttcaaaaacc aagagtcatg 400

<210> 4483
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4483

gttttagttt cagatgatgc ttatgggttt gtagctacct catgcactcc tctaatact 60
 atggcatgat ttctggcgct aaactgctag gagttggagg ccatcttctc aattaaattt 120
 ctagcttcag caggagtcag gtctccaagg gctccaccac tggcagcatc taccatactt 180
 ctctccatat tactgagtc ttcataaaaa tattggagaa gaagctgttc tgatatctga 240
 tgggtgggagc aactggcaca tagtttctta tatctctcct agtactcata caggctctct 300
 ccactgagtt gtctaatacc tgagatatcc tttctgatgg ctgtggctct cgaagcaggg 360
 aaaaaattt 369

<210> 4484
 <211> 136
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4484

agcttgtcag ctatgtggag cccactccta gtggctatta gatgactcta taaggcattt 60
 gcgaaggcta tgaagcacia gccgaagcat tccanattgg taattcctcg cgctcgatcc 120
 cttacngaga aaccta 136

<210> 4485
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 4485

tataagatac tcaagcttag cgaatcagcc tcgcttagcc acaagtatct caatagtgag 60
gatgagtgtt cattctccca ggatgaactt gcttagcgcg gtaggcacac ttaatgagtt 120
cttttgaaaa cgcataatatt caatgaattt tttatgaact cgcttagcgc agaatgccgg 180
ttagcgagtt catcgcgctt tccaaaaaaaa aacacgatct acacactccc ctttcttcca 240
ttt 243

<210> 4486
<211> 114
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4486

agctttgagc aaattcaaac gacaataaat tcttactcgg atgtctgatt gagncccgta 60
atatatcgag acgctcgaaa tggactactg aagatctgag caaattcaac cgac 114

<210> 4487
<211> 152
<212> DNA
<213> Glycine max

<400> 4487

agcttataag aacaacattg ccttaattat ttccaaatat gcatgtgaat taggacgcat 60
caacaagaat caagccaagg ctattgtgca accaatcaat ggggcaaaac acaccaaattg 120
attataatga tggatggctc aaaatctcac aa 152

<210> 4488
<211> 84
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4488

tgaaggtgta tagcccactc atcttttcat agtagaanat cgттаатgtg gctactataa 60
ttatcattgt ttctccgcca ttga 84

<210> 4489
<211> 81
<212> DNA

<213> Glycine max

<400> 4489

agctttaaaa tttgaattaa aacattcatc atattactgg taatcgatta ccatatatgc 60
gtattcgact acacagcgca c 81

<210> 4490

<211> 303

<212> DNA

<213> Glycine max

<400> 4490

tgttaaagct ttatatggat taaaacaagc tccaagagtt tggataaaa tgacgcgctc 60
attcgtctgg aatgctaaca ctctcttaac tgttgcgaa agtgcacctt cccaaagcga 120
atcttagaac gatggttaat tcttaagaat cagcgaaatc taaggcagct aaaaaacccc 180
aggggaaagc agcaacaaat ggtggtctta tgccatcatt ttggaatgat gttgcttatg 240
ctttaaaggc tatggggccc cttggaagtg cgttgagggtt ggtggataat gaaaaaaaac 300
cca 303

<210> 4491

<211> 320

<212> DNA

<213> Glycine max

<400> 4491

ggggtgaacc tagctcatgc ttttatacaa acggatcatca agtcaagtct caatatggaa 60
ggaaccgtct tagcaaattg gggccaaaga tgaatcgagt cacatcactg cttcgtctac 120
tggcaagcat atttaggatt attgatgtcc ttgttacatc caatttcacc ttgacaaaaa 180
tgtcatggac catgttgaaa atctaaattg attccacccc atatcctggc taaaaattcc 240
cacatacttt cactgtgcat cattcgcata catccatgct tttcattggg tgcattgctc 300
attgcattct ctccttgaaa 320

<210> 4492

<211> 304

<212> DNA

<213> Glycine max

<400> 4492

catggtagat atgtaaaatt ctaaaactaa acttttttagt tggatctata caattcacct 60
agcagttgta aaaagtccag ggggctgaaa aaggatgatt atataatgca caatattgaa 120
aatattgttg tatgattgtg ctaatcctaa ttgtattgag aatattgcta catgattgcg 180
ctgatcttaa ttgattctat ttgcattaat tctgattgta tgtattaatt cttattgtat 240
tttaatttta ttttgtatct tgatctcttg attattggga tcacttattt ttaggataga 300
tagt 304

<210> 4493

<211> 363

<212> DNA

<213> Glycine max

<400> 4493

tccatcaagt tgaatccttg tttgttcgga ttcccatat aattcacttc ctatgcagca 60
tcatcaaggg gtatacaaca actagattca tatgtcctc cacatatact acaacctcca 120
acctgtatta ctactgaatg ggaagggtga actacttgca gttgggttgg cagcttacta 180
agtgtctctg tcaatgattc cagttgttta gctaacaact tgttcagtgc caacagtgc 240
tcttgtgaag aaatctctag taggcttctc tttgtgggta catgagttct atcacacaga 300
atagcatgat cactattagc catattctca ataagttcca tttcttcttc aggagtcttt 360
aat 363

<210> 4494

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4494

ntgaaccccn tgaannnctt tgatccctga tagagccggg atgcttacag tccacctgca 60
gggtaccactc tggatcttct gaccgtcaac gagatttatt tgtgagtatg acacaccatg 120
tgagcgcgga agatgacgcc tatctccgag tgtcaacggg cttgtcggcc acggttgacc 180
aaaggcgcac aacacgacct tagtcttttg cggtgtctt gcttttcgtc tacagacagc 240
acaaaagacc gtctatacgg attaccactt gggctctttc cgacgtcagc gggactcaaa 300

tgtgaggctg acagaccttg cgaacgcgga agacgactaa atatgcgcgc tgcaccggct 360
 tgcggacggg gtgaaaagg ccctaaaaac gcgataattc cttgcgcgat ttggctttcc 420
 gcttccaaca gcaaatacag gggctctcgg cc 452

<210> 4495
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 4495

ggagctgcct cggtaaaaat gcttcccagc gctctttaac cggtggatct tctcgaaatt 60
 aggtttacaa cgtcaaaaga cacttgtcca tgatctgacc gttgcgatct gtgagaagat 120
 gtctggagtg tgctagaagc ttccgttcct gagagcatct cttatttaag catttcagcc 180
 tttgctttcg tgtagcttag gaaaaatgtc atttcttctt ctttctttct tccaaagcca 240
 tttctaaagt tccaagaact ttctccatca cccacatgca ccattagcca ccacaaacta 300
 tcattgttct ccattgtaaa cccacaccga gaggaaccct tcaaccgaag cggaat 356

<210> 4496
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 4496

agcttggggg agccttgatg ctctcatagg gaggcttagg gctgcttatg aggaaaatgg 60
 tgggtcccca gagactaacc cttttgcaag tggctccatc aagggtgtatc tcaaaaaggt 120
 tagggagtgc caagccaagg caagaggtat cccttacaag aagaaaaaga aggcctcaaa 180
 tcaaagcaag ggaaatgatg aatcatcctc caccatgcac ttctcttgaa caacatcttc 240
 agtatcgatc cctttggacc tttcaagtca tggttaattaa ttaattaact aatcttgctt 300
 gccatcacac tcatgatcat aaactatgct ta 332

<210> 4497
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4497

tgatttattg tgttatgtac agaggatgaa gaagccaatg gaagagggta tgcaatatat 60
agagaaattg taggcaagtt gcatcagaca cagcaaggta gtgatggaga tataatattga 120
aaagagagaa atgcgagaga aaaaaattgt accaactttc aaacatgctg ctccgatcca 180
tacgtgcttt ttacttttta aagtttttgg gagctacttt ggaagaaacc tttgagataa 240
aagatgagat gggtcaccga gaagttgaca cttatcacta aatatatgga ttaactcacc 300
taanattatt ttaacttgag tttgaatctt aaacatataa ttatattaaa tatttaaata 360
aaaaatttat catttataa 379

<210> 4498

<211> 342

<212> DNA

<213> Glycine max

<400> 4498

agctttagg attatggggg acccatcaca tgtggtacta ggtggtgggc gggcgatggg 60
gcacaacaag ttttccacat tcacaaagcg cgcataaacc caccatcccc tgttgccac 120
cttcaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
cccatcaat cctcccaagc ttccccaaca tcaaagtaat acaacattca aacaacacaa 240
gctatcacag ccaagcaaaa cagggcaaag gcagaaaact ctgccccaaa caccaaccaa 300
aatcacagct tttcacatac aaatacccca gaaacatttc ct 342

<210> 4499

<211> 280

<212> DNA

<213> Glycine max

<400> 4499

tatactaacc ggaacatact ttaccattag aactgccaat acctactggg gttcgctatt 60
ggaaggaatt gatttagctc aatttttctc tattcatatg caccataact ccataagcat 120
tctctttctt ttacgtccta ttcatattt ttacacatt tgtgagtagg tgggtggatt 180
ttgctcgatg ggggtggagtc caaaagataa aagattgaac attatttttt gccatacttg 240
aaaccttaaa ctaattctcc attggtatta gaatttgaca 280

<210> 4500
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4500

agcttatcat cctttnttag tgactcatga tagccttaag tttacttcaa tagttgttct 60
 ttacagaaat tttcatttct gaatacactt aagctaactc atgagtaggc ataaacttaa 120
 aaggctcatg attcctgctc aaaatgtgtt tcataaataa aacacctcta attttggact 180
 catcagttct ttaattttga cacactcata atgatgctca gaaaggttta tagagcaact 240
 accagaattg agaacttgga ataattcttg 270

<210> 4501
 <211> 308
 <212> DNA
 <213> Glycine max
 <400> 4501

tatcggatta tggggcaccc gtcatttgtg gtactatgtg gcgatcgggc gatggcacia 60
 atcaactatc ccattttccac aagtcaagca taagcacacc atccccaatt gccaccttt 120
 aaatttagct cacgtgcacg ttgtagcctt ctctcatte ctctcaggcc cgggtcccca 180
 tcaaccctc caagctttca caatatctag acaattcaat tccatttgtc atgaaactac 240
 cttaaacaaa gaaaaataaa gtggaggcag aatctttgca caagaatcat tcaaattcca 300
 cagagttt 308

<210> 4502
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4502

tagagcttag ctacacacac cctcaaata actaagttca cctccttgag aagcttcctt 60
 gaaaagattc ctaaagaagc tagagcttag ctacacacac ctctctaata gctaagctca 120
 tctccttgag atgagaagct ggaacttagc tacacacccc ctataatagc taagctcacc 180

cccatgacaa aatacatgaa aatacaaaaga anagtcacct ctacaaagac tactcaaaat 240
gcctcgaaat acaaggctaa aaccctatac tactggaatg gccaaaatac aaggcctaaa 300
cgaaggagaa atacctattc taatattttac aaagaatagc gggctcatac ttag 354

<210> 4503
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4503

gtaaccccc ttntaaatga taggcttaga atgcagatta agacgaagaa gaagaagaag 60
aagaagaaga agacgaagaa gcaatcaatt taacaatggt cttttaaatg cgtaagatca 120
aattgattgc gataaaataa atgagataag ggaagagaga aatgcaaact caattttatac 180
tgggtcggcc acttctcgtg cctacgtcca gtcctcaatc aactcacttg atattttcac 240
taacttcgta aaaaaacctt tttaacaact ctgaacaccc aaggaatccc tttcccttgt 300
gttcangaaa ctcaaatc aagagacaac cagtctcttg attacaactt actttctgag 360
atgaatataa agatttctct ccttttagagt ggataatata acttgatggt ct 412

<210> 4504
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4504

agcttccttt acaacanaga gaagagaata atgaaggatt gaagaaatac aagtagtggg 60
gatgtctnct ccacctctag aacctcacia tcaactcacag actcatctca tgctctcagg 120
atggcttctt cttctcactc tggtctctac cagtcttctc acagcaaaag ctttgaaaac 180
tctctggaac ttggaccttt ctctctntag aagtctctaa acatgcaaaa gctttgataa 240
tttcccaaac tccctccaa aatctgattt caggcttaaa taggtggctt tggttggtgct 300
agcacgctta gtgcaactat ggaccgctca gcgtgcatta gtggatttcg gcttaacgcg 360
tgcgtttctc acttagtgga tgga 384

<210> 4505

<211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4505

tgaatntggt ttagacatga ttgatacatg atttgtgact tgtatgaatt gatttgngca 60
 agaatggatg agaggaaggt gtgatttcga aatctgcact tatgcagaaa ttttgctgtg 120
 aaattgtgca gcagaatttt gcacaagtgc agaaaaatgc ttgtgtgtgg ttggctgtgg 180
 aaagtctagt gcagaatgag ttcttgatgt tngctagtag atcccaacgg tcataatgta 240
 ggcttatgta ctagagactt ccagtaaaaa tttggagtcg atccaacggg taacgaattg 300
 gatcgaagga atngttactg gggctcttaa gtgagaaaag ctgtgatntt ggttgatgtg 360

<210> 4506
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4506

agcttgtgcg aatctttccc ttttgttcta atgatctcca tggttaagat agaattcatt 60
 aatcaaggca aggttgtttg gttttgtctt tatcggttac ccaaattgtc gtcgagcgag 120
 aagcgggttg tagctaattc cgccacgcat acccaaaaga ggtacgttgg gatattcacc 180
 acaactcaca ataatctctc caacatcact agctgcttgg taccaaacia tgtcagatgg 240
 gtcaagagtc atgattcggc gaggccaaga aagcttatca tcattggtct tgaaggcacg 300
 ggattgaggt aagtggaagg taaaccactg atagag 336

<210> 4507
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4507

taataaaaaa agcattttcca aatattccaa atcatcatta gctatatttg atgtgcctaa 60
 catcagtgac gtagtcgata aatttgcttc tattacgact tagttaataa tagggaagat 120
 agaaataaga agcaatcaca ctctctatgg cttctattan gagtgaaga aagagcattt 180

acccaacaat atctctactc ttatgccaca tttcatttag gaatctggtt gcttcttttt 240
 tgttacaact attgatgata atatntctgg atgagacaag catctcagta ggtttataaa 300
 acatgggtca gacagacctc agccagtaaa ccagggttaa cgcttcta at agactagaga 360
 ttataacaga c 371

<210> 4508
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4508

agcttttgtc actccaccta tatttgggtc tcacattaac caaacttaac accgctaaca 60
 acaatgccaa tgacttcttg caccocggat acaaaggctt cttcaaatca ttttccaatg 120
 tatcatacat aagagcatgt gcttattgaa aagattctct tgtccaagat cacaaatcat 180
 gtcctcta at cgatctccca tttctacatt aatcggttca atttcggacc ctctcaacat 240
 gtctgtcaat tcatcatgcc atatccatgt cgtataattt ttcttaatcc caccatacaa 300
 aaaatgctca ttcatgtcat ctaatacttg tcaatctcca ttcaaacagn ttatacaaga 360
 acaaaaattt tttcatcctc atc 383

<210> 4509
 <211> 338
 <212> DNA
 <213> Glycine max
 <400> 4509

tgaaagggtca aaataagact catagtgtca ttggatgatg agaaaaactt taagctatga 60
 gaagtaatta gcaactaaag gacacgaaaa atgttgcagg cctgaagaat tgcataatga 120
 acatgacatg aagaacaaca ttgctgcaac acactcaact tttatgaaca ccgtcggggc 180
 tgaaacaacc taaatcatgg acaaaaattaa gcttgaagct gcaa atgcta atatgcctag 240
 atagctta at atgtgtgtag taatttgaag actacttgag ccacataagg gaattgagat 300
 gatctcactg gttgggggaaa gttaaaagaa tatatata 338

<210> 4510
 <211> 286

<212> DNA
<213> Glycine max

<400> 4510

agcttatcat ccttttttag tgaccatta tagtcttaag tttacttcaa ttgttggtct 60
ttacagaaat tttcatttgt gcatgcacta aaacaaactc atcaattagc atggtgctaa 120
tgggctcatg actcctgctc agaatgcctt tcataattaa aacacctata attcagcact 180
caacagttct ttaattctga cacactcata atgatgctta caaggcttag agagcaccta 240
ccaatattga gaacttgga taatttttga agcccattaa tatgat 286

<210> 4511
<211> 261
<212> DNA
<213> Glycine max

<400> 4511

ctcagcttgt ggtagaatgg tagcatagtc agtcaaatta taagtttggg ttgaagttca 60
taccataagg cctgtcaaag ggaagctctt agttgacctc attgtcgaat tccctcctag 120
tgaaagcaac aacgaagggt ggggattttt tacgtagatg aagcttcaaa caacaaaagt 180
agtgatgttg gagttacttt ggaaagaaca aatgacatct caacaaaaca gtcatttgaa 240
ggttgattgg aaagattcaa a 261

<210> 4512
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4512

cacctgcggc atgctgcttg gcaaggcata agcatatgat cctaagtggg taaaggcgca 60
cgatctatgt gccgaanagg gtttaaaact acagggtggg ttaggctatt ttaattatat 120
gctatcttgc tattttgaat tttcttcgaa ttggtatttt tgttttgata tttgaaatag 180
ctcatctttg aagagtgata tgtacaaacc ccaatttgct gggttttag atgtggattt 240
ggccgcagat aagaacattt ttcttaagag tttggtatgt gaaaattcaa ttcatttggt 300
gcttatatat agccattatg agctcgaana tacta 335

<210> 4513
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4513

tgtgagcaag ctntcttggc cttcatgaag actattgcca tgccgccagt cctaagtcga 60
 ctcaagccag gagtaccttc acttctatac ctctcagtgg ctgacaaagt tgtaagctta 120
 aaccttgtac aggaggacgg gaaacaccag cttcccatct attttaccag tcgtatcctt 180
 catgatgctg aaaagtggta ccagatgata gagaaggtag tgctggcact cataacctca 240
 gatcgacgcc tcaggttgta cttccaaagt caccaagtgg tagtcaagac aaactaccct 300
 gtcaaacagg tgttgtgaaa gcctgaactg gaggaatga tgggtattatg gtcctaagtc 360
 gaccaagct aggagtacct ttacttttat acctctcaat 400

<210> 4514
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 4514

agcttatggg atccatgggg ctttccaaac cactaacttc ttatgcaaga aatagttaat 60
 ccattgggag ttacatcccg aaggatatga tcaaataagct aattgggtca ttctatctca 120
 gtaccaactc tattttgtta aatgggtttt tttttatgga taatcgattc tgggtgaattg 180
 ggaagagtta cttcatgtat aatgccttct atttcacaaa ctcattaaat aaaacatat 239

<210> 4515
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4515

ttttaccctg tttctgactt caattgtgaa atttctgaat gtatattttt cttgttttgc 60
 atccataaca ttgctgagct ccagtaatta gtatttggaa tattgctgag tctaattctt 120
 agggaggtag catccttatg tagagaaaaa taccttcttt ccaagttgag agaggataac 180

aaggaatnnt tctctctttt ttatggttca acttcaagcc atgtcattca ggatgttgat 240
 ttcttatttt tccttttcct tttctttttt cttttctttt atctataaag tagatgctct 300
 catttcacac agtncaacaa tttcttgtaa tntggttagtg gtgtagagaa taaattgcaa 360
 gtgcatgatg aatga 375

<210> 4516
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 4516

catgccagct tgtaccgatc ccatatgggt ggattattct caaagacttg tcttcctatg 60
 attttacctt atgagagtga cctaacttac caacgtgtga tctgctttat catgtactca 120
 tgggcacttg acgaagtttt tctaatacat ggtaccacat tgcataaag attgagtctt 180
 agtatatttg gtgcataacg cttgtgtatt gatcgatatt gattgggtga gtgatgttgt 240
 gttttgatcc ttgagtacgt gaatgatggg aaa 273

<210> 4517
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4517

tgcaaccact gtgactcata ttcagtaaag gaactctggt ggtatgtttt tactntcaga 60
 atcttcactg acagagcaaa acttaactac tgaagttgta gtccttaatt cccatgagag 120
 ttatagtaag actaatagtt ctgactcctt actcctaatt cctgaactct tccaatcttg 180
 agctttttat ggtgtaaaat tgtttaatgc tgtgctttgt gtttaataata tctagaactt 240
 tagatgattc ttagagtcaa taagagattg atctatgtta tatggaggag tgaagtatct 300
 attataaaat atgtaacatg aacaaaacta caaagttacc ctgtgcatgc catggacaac 360
 ggggtccatga ccccccatag ccacatcagt cctttgagtt gcagaaatat ta 412

<210> 4518
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 4518

agcttaatgt tttgtgatgg tggtttagctt gtaaggggtc acttgatga gctcatgagc 60
catatgagtc atgtatgtaa agatcatttt acacgaggta gtaatctaatt cttggaatca 120
ccgttagttc acatttgtga tctaaagctt tcaaccattg aattaatttc acacaacaaa 180
ttcaacaaac ttgatcgaat aacacatcca tcatcttttc caatcatacy agacctttga 240
agaagaagaa ttttcaaaaa tcaaactctg attttgaatg caaacatgaa acgattatca 300
ccgaatggct ttgaacaca 319

<210> 4519

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4519

caagcttttaa acttttgctaa ctaaataaat tgaaatataa aacttaaact aaaacattaa 60
ctgaacataa aatgtatcaa aagcagaaaa ataatggta atcctgtcat ggctcttcct 120
gtgctgctgt gggctcatcc tgaggtaagg agggagcatc ctgngctggc tgagggatat 180
ccttagctgt aacaggccat ggatcccaaa gtgtttgcgc tactaccata tctgctacat 240
aatctatatc tgcagcgcca tactcctcat ctgagacctc taccctgggt gtagtaactg 300
aagaagtctg cgggggtggc tctggag 327

<210> 4520

<211> 205

<212> DNA

<213> Glycine max

<400> 4520

agcttttcag catatatcta gctcgaaata tttatctaca tgtatgacat tcaatccagt 60
cctatatgtc caaatgctga aacctgacac tactaatata taaactgttg cgtgtcactc 120
ttgttaggaa gaataaataa aataatgaaa cataacttct tcggaggcat gaagatgacg 180
ataacttcat gtcacaaaaa caatt 205

<210> 4521

<211> 365
 <212> DNA
 <213> Glycine max

<400> 4521

tgttagaagc cgtgatgtga aattcatgga agaccaattt attgaagaca ttgagaaggt 60
 ggaaaagtat acatctaagg aagacaatgg tgtggctgat tttgaaatag ttcaatcgcc 120
 tattcagaat ctgaatattg atgttttagaa tgatgttggg gtccaacaac ttggagatga 180
 ggtaaātgtt cctactgatg atgatgaaga ggagcatgac atgttacaag atgaaaatct 240
 tggtaatgct actgaaccac cttaagttca actcaggagg tccaacaggg agagataacc 300
 ttctaggagg tattctccta atgagtatgt gatcctaaca gatgatggag aacctgagta 360
 cttta 365

<210> 4522
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 4522

gctacctgaa tgcccgcac gagaattaat atgccaagag agatttttct gtctttgaag 60
 aaggatgtgc ggctctcatc aatgaggacc tgtataacat gcctcagcct atttgctaatt 120
 aacttagcga tcaccttggg catacaccca atcaaagaaa tgggggttggt atcatcaaaa 180
 gactgatggt gattaactgt gggaagtaaa gccaaaagag aaacattact gcctataggg 240
 aatcttccat gcacaagaga atcatgtaca aatcttctgg agtcaattat taccactccc 300
 cacaattact taatga 316

<210> 4523
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 4523

ccattcatgc tggccgaaca acaccaaccc ctccgaactg aagctagggg tttcaaacta 60
 gcgtatgaaa caacgaactc tccctcgtgc ttttcgattc ccttcaattt ttcattgttc 120
 caactgaaca aaattaaggt ttaacttggg gtgtgtgatg aaaattgaga attggatgat 180

<210> 4524
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4524

tgaaacccctt ggaagnccct tgaatacctt agagtccacc gtggatgctc tacagtctac 60
 ctgcaagcat gcaatctgtg caactggaat gtacgaagat atccaagtaa tcctgtaatg 120
 gaacattgga aaggtgcaaa gaaagatctg agatacttac agggaaacgaa agatcacatg 180
 cttacatata aaaagtcaaa tcatattcac gtgattgagt attcacactc atactttggt 240
 ggatgtgggg atataaaaaa aaaccctctt ttctatgact ttcttttaac cgaaggagcc 300
 atatcatgga agatttgcca ccaatgcggt gttgctgcat caccctggga gatgatcttg 360
 tggccgtcaa agctacatgt aatggaaatg gtgagcacc tatgcatagc cttcattggc 420
 ttcagacttt atgtgaatac cctaaacagg cgtggacc 458

<210> 4525
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 4525

agctcggaga ggatgcttca atggcggaaa agaaagaggg atttaaagag agaggggtga 60
 gcactaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
 ttccttgaga agattttctg agacaacttc cttgagaaag ctttttgaga aaactttcgt 240
 gagaagctag agcttagcta cacacacccc tctcataact aagctc 286

<210> 4526
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4526

tcagcctgat tgctaagcga catcttatcc ttggcttagc gtgacccagt gtcgccaagc 60
gcaattcctt acagccataa ctgggggttca taaagctaag caccagtcac ggcagctaag 120
ctgaattcct tgcagcaatg tgagcgctaa gcgaggcctg atctgtagaa gcacagacta 180
tgagcttgat gctttcatga tgccatatga acatgcgttt cccaagttaa gatcaagaca 240
aaaatccaag agattcaaga tacatcatca agaagatctc tagtgattta cggagggaag 300
ttcaaaatga aacaacaaga ggtttggcca agaanattaa gctaaaatgt ccttttcaag 360
agaattactc tctagtaatc gataccagag gatgtaatc 399

<210> 4527
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4527

agcttgtaag tgttatgctn tgatctgtgc gtgtatgctt ctaacatgtc ttcattgttt 60
cttttataag cagtatgctt tgccctttgt ctttctgctg actgggggtca tttctgatca 120
tgaaatgctt gatttggttg acttggcttt atcaactgac acttcaaata caattgtgag 180
agcccaggaa ctgctcagga caaggataga tcctttacaa cttatatcac aattggaaaa 240
tcttattata gacattcttg tangtcaatg tgaacttggg gatttttgaa atcaaacaag 300
atattt 305

<210> 4528
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4528

ttaatctagc ttgactagca ttcttagtca atggctattc taatcagtc tttcagctt 60
acttactctc taaaaaagggt taacacgtat tagactttta tatcgtataa ccgaggtaaa 120
agcatcgacg tttaaaataa tatcggtaac atcggtcttt cagaaccgat gttaatatat 180
aaatacaaca tcggttattg aaataaccga tgttatataa taagaaatat aaaaaagta 240
atatatcttc atatcaacat cgattgttat caaaattgat gttaatatat gcaaacaaca 300

tcatnttttt tggaaaaact gatgnttgat gtctatatta atatcgggtt aaaaccgatc 360
ttac 364

<210> 4529
<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4529

agctttttga aaacaatttt tattatcatt aagtnttgn acaatgact ttgtgacatt 60
gagagattga gcctaatact taaaaatagt tcanaagggtg aaatgaacga tagtantaat 120
ggtgtatata gatccgtttt ggtatagacc aaatatcaaa atgatattat tttcttatat 180
aaaattactt atatttcttt ctttaaaaaa tattgtttat tatcataaga ataaaaattta 240
ctaactt 247

<210> 4530
<211> 353
<212> DNA
<213> Glycine max

<400> 4530

agcttaccce ttacgtttta gggtttttat gatgatgctt gtgatgttta tgtgctgaaa 60
ttgcttatgg aaaactgtta gagatgaagg gtagagttta cctaggggta gaaagtgaga 120
atatggtggt atgagtggaa aaagagtga gttttgagag ttggaaggcc aaatctggat 180
ttagtggtat ttggagggta aagtgaagta atcctagctt gaaatgtcat ttaggactta 240
tgagaaagtt tgggttgtgc tagagagaaa aacaaatgac caaagtgaac aaagagccat 300
ttctagggta aaattgggtg ttgaggagtc aaattttggt tcggtgaaat ttt 353

<210> 4531
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4531

tgaaggcgtg taaccaccca tcttctcata gtagaacatc gataacatgt ctactatcat 60

tggtatcatc tccctctcca tcattggggg cgttacttga gctgccagat gccttcacct 120
 ttgggcatat tctttgaaag attcatgctc ctttttacac atgttctgta actgcattct 180
 atcangaacc atattaaaat tgtactgata ctacctaatag aaggaaacca ttacgtcctt 240
 ccaagaatgg actcgggaag gtttcagaat actatactag gtgacagctg cccagtaag 300
 actttctagt gtcataccct aattcgtctg gggatgatcg ttgcccacat ttgatcctt 359

<210> 4532
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4532

ntccctctnt gaacaaatac ctctcagcca aatagaattc atcttgtgcc tttttccac 60
 aactcttgta aatgggagag aaatgttcat ctaaagcata caagtcccta atgttatcaa 120
 atcctaaaat ttgagctcct atggagcaaa acaatgtgtg tctcctaaag agggcatcaa 180
 ctacaacatt ttgttttccc tttttgtatt tgataacata tnggaaatgc tctangtact 240
 ctaccattt tgcattgcctt ttgtttaact tgctttgcc tctaataaac taaatgattg 300
 atgatcacta tgaatgac 318

<210> 4533
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 4533

agcttattga agtttgctaa aaaccgtgtt aggtttggtc tgggttataa ccatacaaag 60
 gctgacaaaa ggaggatttt tttggaaggg aaaaaataa gttaacccaa ttaacaaggt 120
 gggggccac aagtgaagag ggtcctaatt ggtcaaatca ccaaagctt aatcagtgt 180
 ggatggatga ttgaagatca agttgctgtg ctatgatgaag aaaccaatca agaccagccc 240
 aaatgggtgc aatcgtgttc cccaagcttt gaattgaaga aattgcaaat catggagcga 300
 ctogagattt ttgtgtcaaa tccaatgtaa tcaagtagtt 340

<210> 4534
 <211> 342

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4534

tcttagagat ccactttntc tttgctgttt tgtttttgaa aactctagca catgagtgtt 60
cactatngaa aagttttgac tttggaaaca ttttttcacc ttttgttcca agaacaaaaa 120
atcttccact tacactcttg ttccttacac ttgctctaa ccctttcacg atcattcttc 180
tttcaaacan attcccttcc taggtgaatt gtgtagtctc taagcgcac cttaaacaag 240
tcaagggttt caaattccat cccaactct aggtgaactt gaccaaagg tgaatttgga 300
ttaaaaattg ggaaaacaac cttttcatca tcctcatcat ct 342

<210> 4535
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4535

atgatagcct ggagttaact tcaatgggtg ttcttggaag aacttgatcat tttttataca 60
ctaaagcang ctcatcaaga tgcataaact cagaaggcta aggattatgt tcagaaggtn 120
ggcataatta aacaccaaga gtttggactc aacatgaatg acctctacnc tggatgata 180
aacacatgag ccatagggac ttctgatgta cctatgagac acaatgaact cattgaatct 240
tttgtaccac tactttggtg atttcttcag ccataaaga gacctcttca atctacagaa 300
caaaaatttc ctttctttca ctttcaaacc cttacaatgt tgcatt 346

<210> 4536
<211> 337
<212> DNA
<213> Glycine max

<400> 4536

tgtgaaccaa tttaaaaaat ctttgtaata cagtatgaca cgtattaatt attaaacctc 60
atccttaaaa ttaatatggg aggaccaaac ttattatatt caataggggc ttttaatgtt 120
cttccattaa atggtaaaag ttcatttttag taatttcttt aataaatggt tgcattcaat 180
taccaaagat gaactcttat tatgattaga gaacaaaata aaaattccta tagaaatcct 240

tcacacaaca acttatgccca ttcatagaca caaaagtcta gatattgtgc tatctacatt 300
ctcacatgtc tctagcttgt cataatctct gaaacac 337

<210> 4537
<211> 156
<212> DNA
<213> Glycine max

<400> 4537

tggaagtcaa ccgataaaaag aacaaagacc acaaagcaag gaggcttgtg tggaggctgg 60
ccaactatgg atcttgagtg atatttggaa gatggcctct ggtaatcgat taaaaggat 120
gtgtaatcga ttacaaagct taaaaatggg gtcaag 156

<210> 4538
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4538

agctcataag aacaaaattg cctaaatcat ttccaaatat gtatgtgaat tangattcat 60
catcaagaat caagccaagg ctattgtgca agcaatcaat gtggcaaaac acaccaaatt 120
attatgatga tggatgactc aaattctcac aaacgtaaac ttatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatacaca aaatgtcaag 240
agactttatt ttcagaacaa ttaccatta cttgaacata tcctataatt caaagaaaaa 300
catgaaaatt taacacaaca aaactaaca aaattaaact agaaccaaac aaaactaaca 360
caattaaact aatttaacac aactaacaaa accaaaacca aagaacacac tcctctctat 420
acttaa 426

<210> 4539
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4539

agcttgagtt ctacataagc cttccaattt ctactagcaa gntgttttca ccttatggag 60

aaatgcctga tttgaaagag aagcatgaac agcttaaact tttcaggata aatgtcaagt 120
 tgggtctcaa gatcaatggg aaggagttga gtaattactt gagcaacgag ggtgatgatt 180
 ggattccact tccacaggat tatctgcatg ctttggatgt agttcttagg gaaagtccaa 240
 ctgagaaatg catacctgta gggaggtcat tctattcaag ttcaa 285

<210> 4540
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4540

gaaaaatcta gtctttgtgg gtgtcgtgga tctaatttgt tttnttcct gtgttgaaaa 60
 tggagctntg caaattagag gaaaaatgaa ctttatggta atgcaaagga ctaaagcaag 120
 gaaagttgta catccttcta nggtccacta taacaggctc tatcttaact atttcacaag 180
 ctgggagcca tgcgtccaat gataatttgt tgtgacatct gtgtctagcc cacatgagt 240
 aaaaaggact ggaaattatg agcaagcgag gcttacttgg aaatcacaat gtggaacctc 300
 tttagttttg tgagcactat gtctatatga agcaacatcg aaagaaattc ccaaagggtt 360
 tgtagactac caaagtcaca ttggactatt gccattctta ttgttggg 408

<210> 4541
 <211> 94
 <212> DNA
 <213> Glycine max

<400> 4541

catgcaagct tctaattacg agcgtctcga ttattacggg actcaaactt tcattccgaa 60
 tttatgttat tgacgggtga atttgctcag agca 94

<210> 4542
 <211> 167
 <212> DNA
 <213> Glycine max

<400> 4542

tcaagcttaa gaaaagtcaa cgataataac ttttggactc gttgtttcat tgagtctcgt 60

tatatatcga gacgctcgta attgaaaatg ggagctctaa gaaaaggtaa accgggataa 120
cttttgactc agaatgtcga ttgtgttccg taggatatcg agacgct 167

<210> 4543
<211> 198
<212> DNA
<213> Glycine max

<400> 4543

agctctggcc aatctgatct atggaagcta taggcagcta attatttgaa ttgccgtttg 60
ctggctctcc cttttactta cctggaata cccttaggag caaaccgaa gagatgtaat 120
ttgggggcac cctatatcca caaatgtgaa aaaaaggtag cgagggtgaa acataaaccc 180
atatcttttg gggggaga 198

<210> 4544
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4544

agagtttttc tattgatcaa gagggtttgt agcaatttgt gttttgtacc ctgtaactaa 60
atggatttgg aagntgaaat ttaatgggac ttccaattat atctgatgaa agtagatctt 120
tgcactttta ttcttggaac tattaccggg attttggagc aacaccgggc taaataaagc 180
ctgttgcttg gggaaaatta ctaatctttt ctttccccac acaccttttc attctccaag 240
gtgcttctaa atatgtctcc agaactataa ttgagaattt aacagattaa atatggacgg 300
cttgatgtac gcacaaagaa agcgttccag cttgggccca agaagtcaaa ccctctatgt 360
aggaccatca caactttctc gctctttcat tgaach 396

<210> 4545
<211> 286
<212> DNA
<213> Glycine max

<400> 4545

gctcgaagac aagactatac gaggatcttc cttaggtata tttatatctc taagggtac 60
cgtgtctaca acttgcaaac taagaaactc gtcacagtc gagatgttga agttgatgag 120

tacgcttctt ggaattggga tgaagaaaaa gtggagaaaa acgttcttat acccgctcaa 180
ctacctcaag aagaagatga ggaagaagac ctaggtgaac caccttcacc ttcaccacaa 240
caacaagatc aagaactatc atcaccagag tctactccaa gatgag 286

<210> 4546
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4546

tcttgactgt cactaagnga caacatggcc ggacattcta agaaacattt ctgatgggca 60
ttctggagaa ccatgcta atcattggg atgcttactg aaaatgacac catgcttggt 120
gaatatcctt gctgaagctc atattgatat tttattctaa agccacacat cttcatcatt 180
cataacactt attcacaact cttaagcatt ctaaggctga ttactttaca atgacttaat 240
gaaagttcac tcattgacgt gtaatcgatt gtccatgcta gactcagcag nggtctcaat 300
cctgtggacc tatgcttctc atcggagctt ctcatggacc acgacttcat tctttaacaa 360
tcctgtatc 369

<210> 4547
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4547

aggttgctta gtattaggaa gtattgtgna cttaattttt atggatcaac agatactccg 60
aggttagggg aacttgatg aaactgttat cgggtcgttg tatatcctat taagacttat 120
atacgtgata gatacatata tacatatata tgatactcta atgatgcaca cgtgaataac 180
cactaccacg atcaacatgt acatacgttt actcgtgcat ggatactctg acttattgaa 240
gggacttggt tgttgacaca agcaataacg atgcttccat tctgtacctt taaattttac 300
gtgacttttg atgactatgg catatacatg aggacctgcc gacttgctta tctatataat 360
agatgcgctg agccccacat atagactaag gaaacgacga ag 402

<210> 4548
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4548

agcttctgta ttcaattttg agcatctgta tatattacgg gtactcaatc ggatattcga 60
 gtaaaaatta attgtcatta gaatttgctc agaagattta ttttcaatgt cgagcatctc 120
 gatatattac gagactcaat cagacattcg agtaaaaagc tattgtcata agaattgcac 180
 agagcttctc tttttaattn tgagtgtctc gatatattac gggactcaat cagatatccg 240
 agttaatagt tattgccgtt tgcgtttgct acgagcttcc ggttcaatta ctacgggctc 300
 gatatattat ggcaactcaat tggaca 326

<210> 4549
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4549

tccgttgctc aattgcaagc gtctcgatat attatgcttc taaatcggac cttcgagtga 60
 caagttatga tcatttgaat ttctcgatag cttccgttgg ttaatttcga gcgtcttgat 120
 atnatacgcg ctggaatccg acctacaagt gaaaagttaa gaccatttga atttctcaag 180
 agcttccatt ggtcaattta acccgctcga tatttatgtg cctgaatcgg acctccgagg 240
 taaatgttat gaccctttga atatctcgag agcttccatt gtcaattgcg accgtttcta 300
 ttgtgatgcg cctgaaatgg accaccgagt aaa 333

<210> 4550
 <211> 301
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4550

agcttgatgt gagaaagcgt ggaagagtta gtcttcctac tttngnnttg tgaccacaga 60
 gtggtacctg gagatatgtc gcggnggtca agagaccttg gngacgtcag gtgggggtgct 120

attgccccaa accaagcttg accaatcccc acccaacccc ggcatagtca gtcagtgaga 180
acctgtgacg tacctaagca ggcgagctcc tggcagtcaa ccaataaaag aataaaggcc 240
acaaagcaag gaggcttgtg tggcggctgg ccaactatga atcttgagtg gtatctggaa 300
a 301

<210> 4551
<211> 312
<212> DNA
<213> Glycine max

<400> 4551

agcttatgct gcaaacatct acaacagacc tcctcaacct tatcagcaaa atcagccaca 60
acaaaataac tatgaccttt cctgcaacag gtacaatcct ggatggagga atcatcccaa 120
ccttagatgg tcgaatcctt cacaacatca acaacaacct tattttcaaa atgttgctgg 180
cccaagcaga ccatacgttc ctccaccaat ccaacaacaa caacaacaac agccccagaa 240
agaacaaaca gttgaggccc ctccacaacc ttcccttgaa gaacatgtga ggcaaatgac 300
tatgcaaaac at 312

<210> 4552
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4552

tgaactnggc accttactag tottaactgg tcctgtttg tcctgagtaa ttagagccat 60
gtttggattg gtttattttg aagaaataaa ttcacttttt ttaatcttga aagagcctta 120
taagaaaaag ttattctttt ccataaata atccgaactt aacatgcatt caatctgttg 180
gcaacaaaaa acaactattc atgcaacaaa ttataatata gtgcttacct taatctcaaa 240
atgctccatt ttaatcaaca acgtatgtta cagagaaaga gaggtccact gaaagctctg 300
taaaa 305

<210> 4553
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 4553

agcttgaaga aagagtcata gatgcttgta taanatctat aatttatagn ttggaattgc 60
 aataagtatt attgagctca tcacctcacg aacgaattct attaattatt ttaatacggc 120
 taattctttg gacataaaac ataataactt gcattttaca tgcatttgaa ggatcaaadc 180
 agtataaagt aaaataaagg aaggtaataa ggagaaattg tttatctttg aaggacataa 240
 tgagaaattg ttaagaaaat aatcaaatac tactgcccag ttagataactt tgacttggtg 300
 cccaacagca attagagtgc atcaacaatt tctattttga cttagtgtgc atgtgcaaca 360
 gcaattatag ctttcaacgg c 381

<210> 4554
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4554

ggacactatg aaactcagct tgcagngatt gctgttatga ggattctttc tttttagtat 60
 ttatctttct gtcggggagt ttacttaggt cccatgtcaa cccctctaaca tggcaactaa 120
 naaatatgaa gtacgtaagg ataggtcatt caagtctttt tctaattgaa tcaactagta 180
 tcacttcgta cagtatcctc ttatcacgga atgcgaatga tgaataaata agactttttg 240
 tttcttaciaa gggataacat gatgagttat ataactaaat atataatcta atttgttt 298

<210> 4555
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4555

agctttgatg caacatttgg agaggttatt gaaacantga aatgatgtgc ctcagagag 60
 gttggatcaa atggagaata gagaacatag tggaagagaa naggaggaga agagggaatg 120
 atggtgttcc tagacaaaac cgaattgatg gtattaaact caacattcct ccctttaag 180
 gaaagaatga tccgaaggcc tacttggagt gggagatgaa aatagagcat gttttctcat 240

gcaataacta tgaggaggac cacaaggtga agtttgccgc cacggagttt ccgactatgc 300
tc 302

<210> 4556
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4556

agcttgctcc anaacacaat gtttgcttac ttgaatggaa ggagatcaag agnttttgaa 60
agtagaacca aaacataaga tcgcccagtg aggtaaaagc cgtcagctaa tgacattaaa 120
aaagcacttt ctgggaggca acccagnttt aatttctata atttttgggt tcatgcatta 180
aatcattggg aacttgctac ataatctgta cataggagta tatcagccta tctttgaatg 240
ttagatataa gggtttcaat ttgttgagga agggactgaa aaataactca aaaaatattt 300
tctaaaaaat c 311

<210> 4557
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4557

tcaagcttgt gcaaataaaa tcaactctac atttcatctc tagcatgcat tnntnnntct 60
ttaccactc ctcacgtttg gttttntagg gaaaaacacc ataactaaac gcgccgcaag 120
ggatccctat cgcaccagat ccaaactag aacgatgggt gatcaagagg agacgcatga 180
acagatgaaa gccgacatgt cggctctaaa agaacaaatg gcctccatga tggaggccat 240
gttaagtatg aagcagctca tagagaagaa cgcggccacc gccgccgtg tcagttctgc 300
tgccgaagca gacccgactc tcttggaac tacgcacat cctccctcan acataatagg 360
acggggaagg gacacacntg ggcacgatgg cagccctcac ctgggatac 409

<210> 4558
<211> 297
<212> DNA
<213> Glycine max

<400> 4558

agcttctagc caaatgcact taccttgatt taattccttt gatagccctt ttgagccttg 60
gttccctttc cttggtttga agctcactac aagccttaag tgaaaaacca tgatatcatc 120
atataccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg ggggtttttg 180
tttcattgga taacatgttt tgggtggccat gcttcatgat atattttgag ccatacttga 240
tatacattgc atattgggta aatgtttggac atgctaaata tgatgttggt tctcaaa 297

<210> 4559

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4559

ntaatgtttc ttgccatca tcaatagctc caatcatatt aaaaactcag aatcatgact 60
gacaacaaaa cttaaatgaa taaacataat aaggaacgaa aagaatatga taaaaaatgc 120
aacctcaa atacaacag ttcagaattc ttcattgcaac atgtcatatg gaccagggaa 180
aaaaaacaaa ttcatttaac aatcaagtca cataaagaga taagaagaaa attaagaaat 240
gcagaattaa atcgtattat tgttgaaagc acaggagaca taaaggtagt aatgaatagt 300
tgtaccttgg aaatcgcata aactaatgca atgcgttggt gatgattgga attnnttact 360
aagttattgt ggaatttgat tagtctggaa tatg 394

<210> 4560

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4560

agcttgactt tgcgagttga ttttagcctt attttcaact tagttattag tcaattcaat 60
taggaaagag aaattccaaa gagaaacgtc cgattgattn ttttggttta ttttactaaa 120
agataatttt tgattattat attattattt tacctctttt tnggttccaa cgtgggttacg 180
acatgaccga acggtcggat ttcattttta cagaaattaa cgatattac aaatcanatg 240
atcgggtggaa atttatatta tttttttatt agacgagaan atgacttang taaatgacta 300

aagcacgtcc aaagggggta caggaaagta atgaaatgag aataaaaagt 349

<210> 4561
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4561

atccgacagg atgaattaga ttctcattac tatgagatgt acaaaatata aaggcactta 60
gaaccctggg ctgattatcc aagaatgctc taatgattat ttttttcttc ccaaatacct 120
atTTTTTTTT cttttctaag taatttcaaa agcaacactt tcgcttagca aaaattaggt 180
ctcactaaag aaaaagtcac cttgaggcga aaggagtttg aaggactcct cgctcaacaa 240
aaaagaaggg tcgttgagaa aaagcattga tacacgcana ctttaattaag acatttctcat 300
tgagcaaagt gataattttg cttagcaaaa ctg 333

<210> 4562
<211> 140
<212> DNA
<213> Glycine max
<400> 4562

agcttcgatc tttatgacat atggaagttt catgtcggct agtatttggt tattgccgga 60
tgctgcctgt cccttttact tacataagaa cacccttgag aacaaaactg gaggagaact 120
cataaggggg accacacact 140

<210> 4563
<211> 167
<212> DNA
<213> Glycine max
<400> 4563

tgcacccgaa tcagacataa gtgtgaaaag tcatgactat ttgaatttct cgagagggtc 60
gcgtgttgaa agcttagcgt ctatacatag aattaccctg atctggacct gagagagaat 120
agttgtgaac atgagaaatg gacgagagct tccgagggtc ttttata 167

<210> 4564
<211> 381

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4564

ctgactggag acattttatg accaaanatg tttgtgcatg gcgaggcatc aacaatgaaa 60
caagccaagg ctattgtgca cgccgtcaat gcggcataac acacctttcg actctgttta 120
cggagagggtc taaattttct tactgtcatc tttctaaaag atttggccaa accttctctt 180
caaaaagaag tctttgtcaa aaactgtgga atcatctttt taatctctgc tcctttgcta 240
aaaaacaaag actaacggcc tgatcctttg tgctctcttc tccttacaaa aagccaaaga 300
ctaccgcctg gaattcttgg gtctccctcc cttaacaaag attctaagac aaccccctga 360
aatttttggt ctttacaaga t 381

<210> 4565
<211> 303
<212> DNA
<213> Glycine max

<400> 4565

agcttgcata tataaattaa ttaaggataa tccatgcatg atgcctaaac tggcatagca 60
agaagggtc tcttcacttt tatgtagcag ccattgtaat caatattgat cctcatcacc 120
atgcagaagt actgcaaacc aaagaaaaca aaaaggattc aaatggatc tatagaacta 180
acttaattaa gaaaaccaa agatgggtgat tagagcttgc cttcaatgtc atgaaaacca 240
tccaagagag agagaaagta acaggaattt gaaaatccaa aatagtatga gtgagctagc 300
aaa 303

<210> 4566
<211> 361
<212> DNA
<213> Glycine max

<400> 4566

aagctggaat catTTatTTT atctccgata gtctatgggt tatgtccgtc caggtagtgc 60
cgaagaatac tggcctcaca gtgatacata atgagaagga ggagtttatt cctactcagg 120
tgcagaacag ttggagagtc tgcattgact attggaggct gaaccaggct accaaatagg 180

accattttctc cctgccattc attgaccaga tgcttgaacg cctggcaggt taatcccact 240
 actgtgtcct gatgagtttc tggatatgc aattactatt gctctgagat cacgaaagac 300
 cacttacctg cccataggac tttgctataa gagatgcctt ctgctggcat gccctgtcc 360
 t 361

<210> 4567
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4567

ggcccgggat ccttaagcac ctgcagctgc agctgatttt tttagtagga attatccttc 60
 ctaagatgga gccaaacca gtcaccatca ttaagaacta tctcttttct tcctctatag 120
 cctttagntg aatacacctt tgtttggatc tctatttggg tcttaaccct ttcattgcaac 180
 ttctttacaa actctaaccct agattcccct tctttatgta taaaagaagt gtccagtgtg 240
 aggggaatga ggtctaacgg tgttagggga ttgaactcat agacaacctc aaaaggggac 300
 tgcttggggg ttctatg 317

<210> 4568
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4568

tcgaatgggc atcgtttcat cttatttgcc aatgatattt ttaccaaagg gtggaaaccg 60
 gcctcatatg ctaacctgac taagaatgtg gtggtagaa ttcattcagaa ggagataatt 120
 tgcagatatg ggttacccaa aaagataatc accaataatg ccaccaattt gaacaacaaa 180
 atgatgaacg agatgtgtga gggattcaag aaccaacacc ataattcgac gccttatcgg 240
 cccaagatga atggggcagt tgaggcttgc caataaaata tcaagaagat tattcagaag 300
 atgacaatgt catacanaga atggcatgaa atgctaccg tcgcattaca tgggta 356

<210> 4569
 <211> 387
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4569

agctntntgt tgtttttgaa aaattttattc cagacttcgg ataaacttta atttatggct 60
aattcaagac caactttttg atatatttct tgctaggact atccctaata ctagggataa 120
ttagtaggac caaataaatg gaggttgctg aattatacca catgatttca gcaacaacaa 180
aagttgcaat aaagacaaca atgatatttt ttttattgca ataaagacaa caatgatatt 240
tatggacatt atcaatgttt cccatgtgta atcctttata taaaccttga gctgggcaca 300
cagtaagatg aaagagaccc cgntaatata ttatctaaca ttctgcaatg atgataaact 360
atttctcttc ttcttcaaaa aaaaaaa 387

<210> 4570

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4570

tgaaggtgcy tagcccacca ttttccttag gagaaacttg gtaatgtgtc tactatcaat 60
gcaatcgntt ttttcgtcat tgaggtggca cttgggcctg cacggctctc acctttgggc 120
gtattctttt gaagaatcgg ggcccccttt ttgcacaaaa tttggaggtg catcctatcc 180
caagccatta taccgacact gcctaacgaa ggcaccatta ggtcctccca gaatagactc 240
gggaaggtcc aattagtgtg tcnngtaaca ctaccccaga agactttctt ggaagaatga 300
tcaacaattc tatcttttgc gatgccccat cttcgacata catcttagat gctcttgggc 360
aagtac 366

<210> 4571

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4571

atgacnaccg tgctcggacc cgcgancnn taatttgatc ctttganngc cagcnngan 60
gatagaggcc tcaccgctgt ataagacaaa gtatgtctct aacgaggcta tatttgatca 120

tcacgcctct acacactgcc aaaaacacct cgggccgacg atgaggggtga gaatgaaggt 180
agacttccat gctgacgttg ccatttctat acagtcattgt ttcccaccaa cccaacaatg 240
tctttactct gcctataaca aacctgttcc ttaccctccg cctaattatt taaaaaggg 300
atccctatat caaccacaaa atatgtctac cctacttgca atgacgaata cccactctat 360
accttcctaa aacaccacca acaaatgaat tctgctcaac aaagccttat aaatatccca 420
tcacgagcgt cccatgctac ttgctcccta tcaactagaaa ct 462

<210> 4572
<211> 188
<212> DNA
<213> Glycine max

<400> 4572

tgtgcaaadc aaatcactcc tacatctcat ctctagcatg ctttttcttt ctttaccac 60
tcctcacgtt tgggttttta gggaaaacac cataactaaa cgcgccgcaa gggatcccta 120
tcgcaccaga tccaaatcta taacgatggg tgatccagag gagacacacg aacagatgaa 180
agccgaca 188

<210> 4573
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4573

agcttattta ttcagttgaa gttgcacata tctttatgat tattgagatg ataggtaaaa 60
tgggaaacca gctttggcca accatttggg ccagccttaa ccataacttt ccttgatggg 120
ccctaaaaat ggattaaaaa gtggaaggct ctaattataa acctttaaaa tataaaaaat 180
aaattaaaaa aatctcaaat aatttagtaa tgtaagatta atcanaatat agtcgtggaa 240
aagtatatgt tcttacaatc ttttagcgat ggatatattt atattaactt aattgaactn 300
atcttttata tttatatcga tatcaaa 327

<210> 4574
<211> 338
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4574

ntgatgttat ttttttatgc atcgctntga tttntgttt taatgttngt gctagtccaa 60
atTTTTTTTT aataattttc ttttaataaa actcatttca tgatattttg caaagtgatg 120
catatcaagc tattggctac taaaatttct tacctcaatg attattcaag tcaatagtga 180
aatagcaatg ggtgcaacca tttccccaat tctgcatacc gaaactccca gttcaatatt 240
agtgtactta tctggaagga taatcccaag aatcttcta gtgattaatc tgcaaagga 300
aaccagcctt taagcatctg gggctctcatc tcattatt 338

<210> 4575

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4575

ggagggttat tccacccgct cttatggatg accacagagt gtgacctgaa gatttttgac 60
tgggctatcc attattgggg aaccacgaga gctgctatgg acaaaatgca cggtagacat 120
ttccgacca tcacggggta gacggggcca cgcaacctgg gatggggcta aacggaccag 180
cttctggcac gtaacagagg ttaggaacaa gaaccacttg gctgggaagc gtcgcgggga 240
tggtcatctt agaatttttg gcggaatgag gactatatgc tatggttcat catcacaagc 300
ctaatacatg aagactaacg cgttgccggg ctcttgcgat ngttaccaa n 351

<210> 4576

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4576

ttgcatgcaa gctntataca attaattaag atcaatggcc aatatacaat taattaatta 60
catatatact tatatagtgg gagaatagtg tctatcagag ttttaatttt ttgtactgtt 120
ttaattacaa agacttcatt tatttttttt taaaaaaaag ttgattcatg gattatttta 180
aaattcaaaa gtaaatgatt tccactcata ataccaagga ataatagtaa atgaaggaaa 240

tattttattct ctattttctat aattaacttt agaaaaaatt tattaattaa actagctata 300
cctgggtata ttgttttgac cccctttttt 330

<210> 4577
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4577

tgtgcggtga actaacctcc tttaacatgg aattgttgtg caattgtgat ttgatacata 60
ttgatttaac taggaagggc aggaaaaata agggaaagat catatttgat gtggacatcc 120
ncacagatag tgttttcaga ttatagctta cacagaatgt tagcataaat atagttcaaa 180
tggctgaaat attttacttc ttagaattca ttcattatat tattactaat ttaaggatcc 240
tggtgacaaa tatgattgtt ttaaatgaca tcaaaagtgg atgaatttga ggtgtaaatc 300
tatattgtat gtttgacttg aaattggtga gaacgacaag aggggtcatg tgataaatat 360
tggcttttca ctattgatag at 382

<210> 4578
<211> 345
<212> DNA
<213> Glycine max

<400> 4578

agcttttatg tgaaaggatg tgactcttca tatttgaatt tgaatttcaa cgttcaaagg 60
cactagtaat cgattaccaa aactttgtaa tcgattacaa ctttttgaaa ttaattggaa 120
cgttgtaa atcaatttgaa aactttttca aaacaatttt gctactggta atcgattaca 180
acaatctgat aatcgattac cagagagtaa aaactctttg gtaaacaatgt tttgagaaaa 240
atcatgtgca actcaatttt tgagaaaatt tttttcatac ttatcttgat taagccttct 300
cttgattcat gaatcttgag tcttgaatct tgatgttgat tctct 345

<210> 4579
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4579

tttcgattca ttctatgtac ccgtagtggt ccacattgtg tttcgtgcat ttttattctc 60
gttttggtta ctttttatac ccnctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgtttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gacatctttt agtaaaaataa agcggaaaat 300
caatcgggac gtttctcttt gggaattctc attcttaatc gaatngatta ataac 355

<210> 4580
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4580

agcttttaag tgcgggttta agacgcgtat gccaaagtcac cgcgatatgc ggngatgact 60
ccccgaagag atcggatttg gtacggccat gtcctcccggt tttctgacta ggaaattggc 120
gagtggagga acgcccagac gtttacgcga aaagcataat gtaacctttt gtagctntaa 180
aactctacgg ttgggcctag gctttagagt ttcctttttg ttaaagcatt atgtcttttg 240
tttttgaagt tataatataa agatctttct tcatttgntc ctgngcctct atccattctc 300
attcattttc atgggttattt ctttactctt aaagc 335

<210> 4581
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4581

tcataatgaa tcaagaatga ttcanagagt tntgatgata acaaagatga tgacaaaaag 60
ttcaaaagtc aagaacactt atgataacaa agattatgat ctcaagaatc aaagaatgag 120
tttcagattg aatcaagtac acttcaagga tcaagaggaa agttgaattc aagttccaag 180
aatcaagatc aagattcaag aatcaagaga agactcaatt aagataagta ttaaaaagtt 240
ttttcaaaaa ctgagtagca catgaatttc aaaacctttt acccaaagag ttntactctc 300

tggtatcgat taccagtagc aaaatggttt caaa

334

<210> 4582
<211> 358
<212> DNA
<213> Glycine max

<400> 4582

agcttgcttc tacaatctcc ccctttctga tgataacagc cctgttatca agaagcacat 60
acacacagct tgtgctagac gatcactcac ttaactttgc atattctccc cctttgtttt 120
tgagtttatg cttgacttga aaataaggta aatacttatg tgagctcttg acgtaatccc 180
tatctctatc cccctttggc ataaaaaaaa gcagacaaag ggtgtaacag atattacaca 240
tatataaatt actaattatt cacaagacgt tcattgagaa atctaaacca atcatgaagc 300
tagaaacatg aataaatcag atatattaaa actacatagg cgtataacat aatgcata 358

<210> 4583
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4583

nttggacncc cctagctatt ttgagacctt gaatactcag cttgtncatt gtagaccttg 60
ccctggataa tagccaaaaa atgttataat atgacccttt tccgaagtac tggcttttaa 120
cctttggagg gtattaataa gggtagaagt tgggggttct aatttatggg gtgagcttaa 180
tgagtcttaa gccacttttt gcttttggac tgatttaata caatcatgag aaccatggat 240
gtatccgtct tcaaaaaaca cataaaacag aaatttgacc attaatacatt acccaccaaa 300
aactgatagt agaatcattc nattaatttg aaaagtggcg atattgcagt ctgcaaaaca 360
atagcatgac ttacagacaa agttgacaga tgatggttga cagacagcat agtt 414

<210> 4584
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4584

agctntgatg atgtggtctt caccgatgaa aggatcaaag taggtctaaa aagaggcaaa 60
tctgatcatc atgctttgat acatgccaaa aaaaactagg gcaaatgaag agggtgagaa 120
tgaggagaa gcccatgctg tggctgccat tcctatacag ccatgtttcc caccaacca 180
acaatgtcat tacttagcca ataaca 206

<210> 4585
<211> 82
<212> DNA
<213> Glycine max

<400> 4585

cgggttcggg agacaaaggc caagcgttct cgatatgcga agatgatatt ccgagtactt 60
tggatttggt acgaccatgc tc 82

<210> 4586
<211> 285
<212> DNA
<213> Glycine max

<400> 4586

agcttgact ccattgaatg cccattgtg cttttcgatc tgccctctac ttccacaatc 60
ctgctcccct cctatcttcc tccaaatcaa agtccataga gtgctttaac atggagaagc 120
ctatttcaag ctacatttca cttccttcac ttgaaacacg atctttgtca gatctataac 180
taccctgtt acaaccacaa tggtttacca ctagaatggc atcctccaca attcttacta 240
aatgaatcgt gacattgatc attaccctta acgatgaaaa tatca 285

<210> 4587
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4587

tataatcgac tcttctcttt cactttctaa ttgcgaataa aaatgtaaaa taaattctct 60
cataattttc actcttcata tccacaggtt tccaaacaag ataatgttaa atgcattcat 120
aatcttcaat tctttgaaca catttctgaa tatttttgtt ctaacaaaga ctcttaagtc 180

tgaagaaaaa aaaataagaa tgacaaaaaa aaagactcta ttttccttct ttagacgtca 240
tcaaacgaaa tcaatttttc tttttttatc ctggaagagc cgaatcanat tgtanaatat 300
tacataatga cccanaggtc anaatcaggt tntgctggga acatanntta cgaatctact 360
acaataaaga ctatctaacg c 381

<210> 4588
<211> 307
<212> DNA
<213> Glycine max

<400> 4588

agcttgagga gggtaaatga gaaaaaatac atttataatt ggtgcctgct tttagtagat 60
aatgctacca aggcttgtgg ttaactaat ataatttttg tgtgcttttt cttttcttta 120
agcttctcgt gtgtagttac tgcataattta ttttaattta tgaaaaatct tcatgttaaa 180
acaagactaa cttagttcat gcaagaaaag atttttcata gagtattcag ctccagaagc 240
agagcctacg ttttttataa tattaattaa agaaaaaaa attgaacttt tgaaaaagca 300
gttctta 307

<210> 4589
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4589

taagccacca gctcgttng cgtgctgagc atgccgtggt gagctgggtg gcaagctcct 60
cctccatttt tcctataaaa tggcattgga ggctgagggg aaggggtcca acacctttgg 120
caattagatt tcaacttaaaa ttagtgagga gaagaagaaa gaaggagaaa atcaaggtcg 180
aggcactttc ataatgcttc catgacgttt tcgtgatcaa ttccgtgaac atttttcggt 240
cttcttcggt cattattcgg ccgtcggcga ttttcaaccg attagttttc gatttcggag 300
ctttgaattc attcttgctt ttgattgtnt cattttcatc tcgtctactt ttagtattct 360
ttttcttcgt ttttaagtga tttcaat 387

<210> 4590
<211> 304

<212> DNA
<213> Glycine max

<400> 4590

agcttcctcg gtgccattcc tgcaaaggca aacatttgga aagttagttc taccagtggg 60
acattactct taaagcaaaa atggcatata acctccttcc ataaatacaa acatcaatgt 120
aaatttagag caagcttatg cgcataattc cttacaaacg ttctcttgca caagacattc 180
tattaaccga aaaaaatgca cccatatata atcaaggcag cttcgttacc tagattattt 240
acacgtactt ccaagggtgta tttgttactt acatcacaca catcttcttg gctaaattca 300
cata 304

<210> 4591
<211> 246
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4591

attcagaaga ttagagttaa tctcttttat cttagcgaga gtgattctcc taaattcttg 60
agtgattcaa gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct 120
cgctggaaag agngattctt tccttccttt catcatcacc cttgttcttt cataccacca 180
ttccagaaaa tccacctctg cccagaatta tctcgtgggc ataactcaa tntaagcact 240
caaata 246

<210> 4592
<211> 302
<212> DNA
<213> Glycine max

<400> 4592

agcttaagcc tttcatttca tcaaatagtg ataacgcttt cttcacctca ccaatcttgt 60
gaagagaatc cataaaaaata ttatatattt caacactaac atgacccttt tctttcaatt 120
ggccaaatgt ctctaagcc attatcggtc ctttcttctc caccaaaaca gagaagaatt 180
tggagagatc agcaataaca ggaaaaccca acttctgcat ctgctcaagc aacttgcaaa 240
attcttccat tctattcgct tcagcatatg caaccaacaa cggtttcacc cgtaagaagt 300

ct

302

<210> 4593
<211> 340
<212> DNA
<213> Glycine max

<400> 4593

tggagggagg tccctcactc gtatctgtca ggtgatagtg gcacccataa gaaagtattc 60
atgtgaagca cctgatgaca agtctctttt atatgaaatt acatatacaa tccactatct 120
tatcaaaata tggcaatcct gtagtcatta attctccaat ccttcagtta gggtataata 180
tctgaaatgc tagctatgac cagattcttc aactcagggg aatatgataa tgtggaattc 240
attttaagaa tgcttcgtgc attcggcact ggcacacat aattggaatg ccgttgatga 300
tgcccgacag tagcataaat aaactaacgc tagcagaatt 340

<210> 4594
<211> 344
<212> DNA
<213> Glycine max

<400> 4594

agctttatga agttttctgg ttttctaaac cttgaaaact tgtgctattc atcctcttca 60
ttctcttctc cctttgccaa aaagaattcg ccaaggatta accgcctgaa ttctttttgt 120
gtctctcttc tcccttttcc aaaagaacaa aagactaacc gcctgaattc ttttgtgtct 180
cccttctccc ttgtccaaga attcaaaacg acacagtctg agaattcttt tgattcttcc 240
cattccctta tacaaaagtg ttcaaaggac taaccgctg agaatttttt gtatcccagt 300
cacaagata aaggtttaac agccgagatt ttgtttaaca catg 344

<210> 4595
<211> 303
<212> DNA
<213> Glycine max

<400> 4595

tcttctcga tagccctctc cttgcacctc caccctctg acgcacttcg ggtgcacctc 60
ctgaactctt ctctgtcacc tgggtcgtcc attatcaaac accaaaatca aaaatgtcaa 120

cggcaaattg ttgaaagttg aaactctctc taactctgaa tcataaacac ggaaatcggg 180
 atgatggtgc taaggaacac agccatggac tgaagaacaa gacagaaaca aattaattaa 240
 ggtgatggta gtagcattag aagagtgtgg gatgaaaggg gaaaacgcag tgtgtcagtg 300
 gag 303

<210> 4596
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 4596

agctttttaca aaaagggttca tcaagtcaag ttgaaatatg gaagtaacca tcctgcaaaa 60
 ttggggcaaaa agatgaatcg agtcacatca ctgcttcgtc tactgcaaaa catatttagg 120
 attattgatg tccttggtac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180
 aaaatctaaa ttgattcaac cccatatacct gcgtaaaaat tcgcaatact tcgactgtac 240
 atcattcgca tgcattccatg cttttcattg gttgcattgc tcattgcatt ctttc 295

<210> 4597
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4597

tgtgcttgtt tttttaaatt cctaggatca tgagcaacct ggtgtgtcct gctatgactt 60
 gagaaacaaa agggatcaaaa taacaggccg aaattaaaaa gtactanggt tgcttcctag 120
 tagtgctttc tttacgtctt gagctggacg cgtgatggca tgtccgtcac ggacctagta 180
 ctttgcttac ctttggtttt ggacttggtc gcctatttgt cggncatggg tcgtaagcaa 240
 tgctctaacc tttntttgga tgatctgagg tgaactctaa aggtgatggc ggtgcgtc 298

<210> 4598
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4598

agcttctaaa gtctaaccta ataaaagcat acctgccagc atcttcaggt tcatctaact 60
 caaaagcatc aaactcaaat ctttctgggt tagtaacagg catacacaac gtttccacac 120
 atactaagcc ttccttggtg atgaaaaatt tgttgatttt gacgagaacc tcaatacaat 180
 cttcaagcac atattcaacc tttttataga atgttctgat agtgccaaaa agaagttagc 240
 caagcactct gtaggataca gcatcaatth cttgcaaaat cttgtctgcn gaaggtaaaa 300
 atgaaatgaa aataa 315

<210> 4599
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 4599

agcttagcta agccaaagtc agagatcttg gcattcagat ccttgtcaag taagacattg 60
 gttgccttaa tgtccctgtg tactatthtc aaccttgact cctcatgaag ataagccaat 120
 ccccttgcta tccccacaca gatcttcatt cttgtgggcc aatacaagtg cagcttctgt 180
 tcatgttcac ctacgggaaa tgcgggggga aaggaaataa gctthttctg ttatatattg 240
 atthtgaagc agaaacatac acacacaaac acaagggtata tgttgcccgt aaagcattta 300
 ccgaaaagtg cagagcaag actggtggtc tccatgtatt catatataag tagcaactgg 360

<210> 4600
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4600

gtattgctgg tataatttgc ctgttccatt atttctttaa tgnctthtaga ggthacttcc 60
 tcattgacat cthttgtctt gaatggaatt gccatgacag gcttattgtt actgtctthg 120
 atgttcggca gttgatattg tgttgcgga ggtaattccg attggattaa ctcaccatcc 180
 ttcacttgcc aatttgtht gacaatttgt gttggatcac ctatgatgtc ttgtthtcaa 240
 aggtaatcta tatccattct gatggcataa gcatgaaacc aatcaaaaaa aaggacatta 300
 atthtgactc thtcgacgaa thcgtagaac ttgtctthga tt 342

<210> 4601
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 4601

agcttgccca gagaaggagt ccacagagga aatgcttacc accttataag actggaaagc 60
 ggttttctaat gactcctctg cggcctccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgaca cgatgaccaa atgccccctcc actacgaatt tcaacttttg 180
 gtggagtgtg gagggcacaa ctcccattga gtggatccac ggacgcccc aacagacagct 240
 gtaggggggg ttaatatcca ttatttgga ggtgacttga caggtgtgag ggcctatttg 300
 tact 304

<210> 4602
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4602

tttgggtacaa agaagaagaa gaagttcaaa gagattcatt gcttgtaaag gattgtaaga 60
 gatttttcaa aatgcaaaac aaagccttgc ttttatagac ttttcatgtc tggtaagaa 120
 gaccattcag aagagttatg acttttagaa aaacttaaaa cccatttgaa aaagtcaaaa 180
 cctttttgaa gagttacatc tttagatttt tcagagacaa aacttggtta tcgattacca 240
 aataagtgtg atcgattaca ccaaagcttt gactgaaagg atgtgactct tcacnattaa 300
 atttgaattt caacgttcaa ggcactggnn tatcgatacc anaacattgt aatcgattac 360
 agccttttga aatatttgga acgttgtaaa tccagtttga aatcttt 407

<210> 4603
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 4603

agcttgctgg ttagtttggg agcacatatg tagtttgttt atgtgtaatt tgcagtctta 60
 cttgttgttg atttaccat ggtttgattg ctataaattg aagagaaaat ttcactattt 120

agtgtggatt ctacactttt tttttttact ttaatccaaa tatttcttct tgattttatt 180
 tcattttctt ctcttcttct caatcaaaac ataactgaca ttcatatcta attgactcaa 240
 ctagtatagg ctagtttgac ttttttttcc ttcttggata aaagaaatca aattcatata 300
 taatagaatt taaatatcat tacaagatca attattaagt ttctaactaa gaaatggat 360
 tattgattct atcattt 377

<210> 4604
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4604

atttgatttt ttatcataaa ttatgtttat aaaatatata atatttctct tgagtaaaga 60
 tataatatat tattttctta tcgntgataa aaaaaaatta ttttcttaat ctactggat 120
 atattttccc gaactggctc tatcaactct ttaaaaaagt gacactgtta aagtctcacc 180
 ttaagttgaa taagaaattt aatgtgacac tcaatcactt ggacattgat tcttgattct 240
 taaatggaga atgaacacca tgtttgctat aaattctatt t 281

<210> 4605
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4605

agctagccca ggaactaatt atatctatgc cttaagcag gccattttta tatcaacctt 60
 atctgcgga tcaattctta ctaatgaaga ggctagcata gctgctgccg catccgaaac 120
 tcttgctctt gctaaagcag ctgtgcaggt tgcaaaggat gcagttatac taagtaaaag 180
 gaagcctcca gcagatgcag angttaaatc ccatgtttct tccaaatctg atgatttact 240
 tetcaaattg tttcatcaaa tggaagcgga agatgggtgta cacaaaagtc atgggtgctg 300
 gagcaaaata atggaag 317

<210> 4606
 <211> 222
 <212> DNA

<213> Glycine max

<400> 4606

agcttgacca ggaattatTT gtatgggttg gatgttgaat tccggttggt cctgggtgcgg 60
agatgatggt acagcgggtg aacaaaaagc ggaagtttct tttggtgagg tagccatgga 120
aaagcagagc gtttggaatg atttcgtaaa tctcagaagg ctattgggaa atgctggtaa 180
aaacacgaat gccaa gcaga tataaatTTg aatgaaaaat gt 222

<210> 4607

<211> 195

<212> DNA

<213> Glycine max

<400> 4607

agcttgctat gcaaata gaca tctgcccttt tctttttaag atttagctgc gacgacgaag 60
ccatgagttg aatagaccac catactgtct tacctttccc cattgtctag cacatacttt 120
cagcccatat gcaaataaca ctcgattatt ccatccagat taaaggatag tttgctacga 180
tttgcataat ttgag 195

<210> 4608

<211> 358

<212> DNA

<213> Glycine max

<400> 4608

agcttgtcca agaggttctt cacctcagta taacctgcat caaccaattt cagatcatgt 60
agtaaacaca tcgatctgct atatcattaa atcgagagta aaccatcaac ttcaccccta 120
aactaatact ctctctgtta aatagtcctt aaagtaaaac aaactatgaa agtgtttgaa 180
atcatattaa gtagtcacca aactactaaa aaatccttca gttgggtccgt aaacttcact 240
aaaatacgtt aacagaggga ctaaactaaa gtgatggata ttcaattctt taaagattac 300
ttaaacaact tcattacttt aaggatcatt tgagagatca acagtttaac gacaaaat 358

<210> 4609

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 4609

agaatactaa gcttttctccc tttcttttag aaatccaggc ttcgaactgt ttcttacact 60
 cataacaaat ggcaatttta ttcccttttc cgtttgggtg taccaaagct ttaagaata 120
 aggtgggggc accaagtctt ttttgaatca tttggtaaatt tggctgaatt cattttaaaa 180
 attttatgga aagacagata tttgtttgat aacatttttt accctgngtg cttgactgat 240
 agcttatgca tatagctgaa tatatattat tacatctgaa ctccagatgc catacacaac 300
 aatttagagt aagcaaccat catttaacaa caatttagag taaggaacca tctttaagtt 360
 ttaatatcaa caacgaaatt tattct 386

<210> 4610
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4610

agcttctatg atccgtcaaa atttcaatgt ggtgccccaa taggtattgc ctccacttct 60
 taacagcagt ggtaatggca gctagttcac gaacataggt gaaggagctg agtaacttat 120
 ggcaaaaactg tttgctaaag aaagctatta agtgtcttcc tttgtgacaa cactgtgccc 180
 attcctgagt cggaggcgcc tgtttccacc acgaagggtt tgggtgaaatc aggaagtgtc 240
 aatactggng aattattcac gacattcttc aagttttgga aggcaactgt agcttc 296

<210> 4611
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4611

atttccaaat atgcatgtga attangaagc atcaacaaga atcaagccaa ggctattgtg 60
 caagcaatca atggggcaaa acacaccana agattatgat gatggatggc tcaaattctc 120
 aaaaaggtaa acttatcact ttcaaattga gctttcaaaa ctatcatgac atgtagagga 180
 aaaacaagga tttcaaatca caaatgtca agagactttt aatttcagaa caattttctc 240
 atttcttgaa catatcctgt aatttcaaag aaaatatgca aaagtgtaca 290

<210> 4612
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4612

tccatcaaca tgtagaggag aatcaaggat ttcaagtttc aaaatgtcaa gaactttttt 60
 tttcaaaaaca ttaacccttt ctgaacata tcttttatatt aaagaaaaac atgcccaagtc 120
 gtacatgcac acggaattga cccaaaatat taaactgaaa atccgacgaa actaacaaca 180
 tttgcaaatt aacacantha acanattaac aaaaccaaca aaactagcaa aaccaaagaa 240
 cactccacc atacttaaac aacacattgt cctcaatgta gcacaattaa nagattaaaa 300
 acaattaaat catcaaatag aatccgacaa gtgtaataaa agcaaagaag gagataggaa 360
 nagaanaaac tcctaagtca tg 382

<210> 4613
 <211> 127
 <212> DNA
 <213> Glycine max

<400> 4613

agctttacag cagtatttag taatgacttc ttaacctaga attaaaataa cttaatgcc 60
 ttaacctagg gaaataaaac aaactaaatg actgagtgt actgaaattg ttggcaacca 120
 aaagtca 127

<210> 4614
 <211> 279
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4614

agcttcagag tgatgctntg cgtgaagcca tttcangaat catggcttat tcccaggaga 60
 agaatcgcaa atttgtggag accatcgaac tccaaatcgg gttgaaaaac tacgatccac 120
 agaaagacaa gcgtttcaag ggctctgtca agctgcccc ctttctctgc cccaagatga 180
 aaatttgc atgttggtgat gctcancatg ttgaagaggt ctctatttgc catattcatc 240

aagactctta atggatcata actatttcac gataattag

279

<210> 4615
<211> 328
<212> DNA
<213> Glycine max

<400> 4615

tccggtcttg cgttcacttc attgggtctgt aacattgtct caaaatcagt ttcttggttg 60
tagggaaaaa gttctggcca tccaaggcct agaaactgaa tgatcaatta gggttgtcaa 120
ctttttaatt tacctttctt tggccaggat gaactaattt tatatatacc aataaactat 180
gagagtttaa atcatttatt ttaactctat acatttataa actaaaaaat gtacatcaag 240
tttaagggaa ggatgcccga taaaaaataa aaaaaaagggt taagtatgaa aatatgacag 300
ggaaaccggt tatgggaatt ctcacaat 328

<210> 4616
<211> 333
<212> DNA
<213> Glycine max

<400> 4616

agcttgccac ccagctcgcc cagggtgagct aggttgcttc ctctataagc aaccgccttc 60
tagaggaata ttctggaagg cccaagtggg cctggttgct atttgaacct ccatttttac 120
taaatacacc tcttgctctt ttttgggtgat tcttttaccg taacggttatg aaattttaca 180
aatttcgtaa cgatgcttgt tttctttccg taatgttacg aaaccttacg gattacgtaa 240
tcatcccttt ttttccttcc ggaacgttac gaaactttac ggattgcgca ctaacacttc 300
cttttcaatt tccggcatgt caccggaactt cac 333

<210> 4617
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4617

tgtggaatag gggtgcttag cctgctgctg aagttggcat aaatttgtat ttacagagc 60

agtaccacac actggatttc ctataagact gaaaagcatg agggacacat caaaaaatca 120
 ggcattataa atgaaacagc atacagagaa tcagattgaa gtctagaatt tttctcacat 180
 caatatatTT ttgtattgtg aacggagtgt cactgaggaa atctcattgt cttgcaaadc 240
 tacaagctgc aatttgggac aaatgttgtc acccatgtcc aatgtattgn tcaatgcatt 300
 tgttcgtagt ttctctgtgaa aatatgaaaa ttatgatgac tatcattcta ttgttggata 360
 actacctatg atcaacataa aagttaggga cttacac 397

<210> 4618
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 4618
 agcttttgtc taatatctct tccgaaacct cacttagact taattattat atagatcact 60
 aaacaccgcg aaatcctcac taatttgggg ttgacgcta gctcacatat taattctctg 120
 gttgaacgta tagcccaact ccaccatgat aaaggattag caaataaaaa ttgaattcaa 180
 aaattgtaaa tggagatTTT agattcttag tcgattgcta agataactta tatgtgtgta 240
 tcagtgatat aagaaataaa gcgaaacgaa aatatagact ctatagagat tttgatttaa 300
 taacaaagca accgatcgac taattactc 329

<210> 4619
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 4619
 agcttttatc ttgcgaaaaa tcataaatTT tctaaaaaag tgggactttc ttagaaggct 60
 gaggttcaca aaaaaattta agcttttgta ttgcgagaaa taatgaacca aacataatgt 120
 cgtccgagaa tcacttaaaa caaacttggt tgacataaaa atcgaagctt ttt 173

<210> 4620
 <211> 188
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4620

gtttttaaaa atggaattgt ttgcaaaaa aaaattatag gccaatgtta atttgtagtt 60
 ttttttggtta gccaccagga ttgaatcgcc aagcgggacc tttcccttct tcccttttctt 120
 cttaaacacn ccaccaacct tataatctcct ggnntttagtag gttggtaggt tttttaaaaa 180
 aatggaat 188

<210> 4621
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4621

agcttcactt gcaatttcaa tataactaaat aaacaattac ctgcatcaga actataacta 60
 gaaggtacct cctgctgatg aactgatgga ttgtcgga agttcccttg ttcaaatgaa 120
 acagtcaa atctctatgtc ggtcccatct ctagcactgt aagaatgcc atcttgagta 180
 tatgatgtct ccaaactgac agatgcaggc tcctgggaat gtcctgaaat ccgctgcaca 240
 gatgcatcca agtaagaaaa ttgttgatag cttgctgatg gatgggattg gttntgaaca 300
 tcaatataat gtgagtcaac agattgctga tactgatcat gataatg 347

<210> 4622
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4622

gctgaaacat gccccacaag tgtccctttt gccctctctt tgaatatttt gcacatttcc 60
 ttccgaaatg tcacataacc ttacggattg cacagtaatt agtgtaagc agctcaattc 120
 ggctggcgag attccaaatg ttggcagacg atcattcacg gacaaaatta gggtatgaga 180
 ataccctacc catattgcag cgatgggtcat ccctagacat tagtcaactca tagcacacaa 240
 agctaataga aaactacgaa atgggtctaca ccacaaaatt gatgtaacaa atgtactgca 300
 taacattctt cttttangtt agaaatagaa agcaatgcct 340

<210> 4623
 <211> 208

<212> DNA
<213> Glycine max

<400> 4623

agcttacatg tctaagaaga taactgtatt gttctgaatc tgaaaattcc ttggttttct 60
tcccagctac aatctcctgt actatcacac catgactaca gacatatgat ttcattgaga 120
ctagcttact atgaatcata tcacatagag actagcttac tatgttccag ccaccctat 180
tgtatttgcc ttcacttgat ctcccaa 208

<210> 4624
<211> 374
<212> DNA
<213> Glycine max

<400> 4624

tcatgcaacg aacttcaata aatttgggaa tatttcatat gtgagattat agaggactca 60
gaagcatgcc ttcattgtaat ttgggtactgg tccaatgctt gaaatatctt catcttgcat 120
tataaaaaaa aactagtaat cattgttttt aattcttttt atctttccat ataaaaaaat 180
attttatcta agaaaactct taactaataa ttagtgattg gccctgcaaa cagcttttgt 240
gataagacat taatgggtcac ctgaattaga agagatacac tctgctcaat attcttggac 300
ctgtggcagc aggttcaaca ctgctcaata ttcttggaga ggtctatatt gatagcatct 360
tcataccctt atac 374

<210> 4625
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4625

agctntataa tttatatgaa gttagacact ttctcatgta tagtaatcgt attnttatca 60
ttaattcaaa atatttcatt ttggaatat gaaaaactaa tattcactta catttaagaa 120
atatcatata aatagctga tagaaaaatt agcaaaactcc ttcataaata tttttctatc 180
tttataactc tactataatt gatagattta atatcacatg gctaacatcg gtatttcaaa 240
aatcaatgt taacacgagc acggtggcat ttctgtaaata aaactgagtt aattcacatc 300

gattgtgaaa aaatcaatgt taacta

326

<210> 4626

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4626

tcaaacttgc aacaaaggag ttgagcaggt aaaaaagatt cgtcttcaaa ctcttagagg 60

tgactntgag cgtttgttta tggaggaatc cgagtcaatt tctgaatatt tttctcgagt 120

attggccgta gtcaatcaac ttaaaaaaaaa tggtgaaaat gttgatgagg tgaagggtcat 180

ggaaaaatac ttcgaacttt aaatccaagt tttgacttca ttgtaccaac attgaaaaaa 240

caaggattaa agaccatgac tattgagcaa ctcatgggtt cettacaagc atacgaagag 300

naataaaaga gaaaaattaa acaaaatgag gctactgagc aactactaca actcaacgta 360

agggagcaaa ctatgcaaat tacaag 386

<210> 4627

<211> 209

<212> DNA

<213> Glycine max

<400> 4627

agcttgaatc tctatcaact tcttcttctt cttctttgaa ccaaaagttt tctgaagttc 60

tctggttttc caaaccttga aaacttgtgc cattcatctt ttcattctct tctccctttg 120

ccaaaaagaa ttcgccaagg actaaccgcc tgaattcttg ttgggggtct cttctccttt 180

tttcaaaaga acaaaggact aaccgcctg 209

<210> 4628

<211> 276

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4628

tcttctgtaa tgtgtttcac ttcatgttcg gcctcaatca gaaaaagata acgttcgagg 60

ttcacataaa tacaataaaa tacgtcacca acgcctatat atagccagcc aaaccaacaa 120

atatntttga ggcaaggaga accgtgtaat atccaatttc atataccatt tatttcatcc 180
accctttgtt gaaataaata aactaataat tcgtataaca ctttttttaa catgatagtt 240
gaataatatt gtgttaaaaa ataatatattg ataaat 276

<210> 4629
<211> 291
<212> DNA
<213> Glycine max

<400> 4629

agcttgtagg gaaacccgct gagttctttg ttagcaccga tactctagga ggaggccaag 60
aaactactgt gtaagatttt ctttttttcc ttgttagtgt tcttgatttg tgaatctcac 120
ttaaattttg agcttaatat gtggcatgca ttgtgaatca cttttttaat ctttatcagc 180
taagttgagt tgtttatgta ttgtgtaagg cttttcaagg agaaacgaag caatgagctt 240
aaattctaata agtcaaaaat cacatataat tttcacattt gtcattgagt c 291

<210> 4630
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4630

tgtggtggtc attctctacg ccatttttcat cgctgccgca tgtaaaatga cgggtcaaggc 60
tcttaagaca gcaatgtaaa gatgtanggt atgataatag caaggcaaata tgaaatagaa 120
tatgtatatt ggtatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180
ttctatacca aattctaagg catgacagac gtgatccata atcagtggca tctgatttat 240
tctatgcatt tataggtaaa taaata 266

<210> 4631
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4631

agcttctcga tggccaaggt cactaagtgt gattatggcg gaaaccacac acacaacagc 60

ctcggaacca ccaacgccgg tggtagagaa tgacgnccgt cgttctgcct cccgcaagaa 120
 cggcgatagg ctcatcacca aatcgcgaa cgtagatgcgt tcgtagatat gcggaaaagg 180
 aaagatatag aggagaatgt agagcgatgt gaaagaaaaa aaataatact ttttcgtatt 240
 ggaaatgaag ggtccaatgt catcanagaa aaattccatg attaanagga gtaagganac 300
 tggcccacga acctttatgt gactgaatg tgattttgga tccctgaatg 350

<210> 4632
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 4632

tatcaaactt tgggtctaacc tatttaactt ctatatTTTT acggccttct tctagctagc 60
 tcaaataccc aatggcaatt gttttaatta gctacatctt atgatgatac aatgcagctt 120
 atcatcttta ctattttatt atgaaccaca atactatcct agacaaaaat aatcctcacc 180
 gactcttgta aattatta 198

<210> 4633
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4633

agcttgcatt cattntagtc ctataaaatg attatgtttt gattntagnt cttacaaaan 60
 aattcttttt ttttattctt ttaaacntta aaattattga ttttaattct atagaatcaa 120
 cataatttgt tttgggttcc ataaaatatt tttgggtgcg tttatgggct caaaatttaa 180
 aattactaat tttnttcccc taatctaaag tttttttttt tatcanaacc taaaccttta 240
 attgtaagggt agataaataa cattttaaga atctagattt tttttacggt attacataat 300
 ggcattatac cata 314

<210> 4634
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4634

tacctgaaat attagtgggc cgttttctt gcttccgtga gaaaattaat agcggaaaag 60
tgaacgaaag gattacaata ataagatgac cacccttatg tttgcttgga taattctaac 120
cgcaaatccg cgttaataaa ggaaacaaat agcttcaaaa aaaaaaaaaa gaaattagag 180
cttttgataa aaatgcatag gaagtgtgct tttgcacaat taaaaatata taatgcaatt 240
aatacgagtg atgatattac accacataga ggagcacttt tgtctttctc tgnntttaca 300
ccacatgtna gtccaatatg aatatatgat tagaagcgtg tatatgggtt tctatttggg 360
gatc 364

<210> 4635

<211> 210

<212> DNA

<213> Glycine max

<400> 4635

agcttgttct gtgtgttaaa aaactgttat ttgataaagt attggcccat ttctgtgaa 60
ctagagagca caaccgcgcg cccgaacatt ggtgcttgga tcacacggga gatgtccata 120
ctttactgta aagtgttttt ttactgccta caaagttatt taaaatgatt taacaactta 180
tgatagtatg tacctacttc ttataaagta 210

<210> 4636

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4636

actcagctgt tctgcggaaa tttttaggta ctttcaagta tgaaaggagt ttccgacatt 60
tatatacttt cacttcaatc cacattaatg gaccagaata aaacttttta ctgaaagaaa 120
aaaaaaactt ttacaccaca cacactcatg aanttatctc tcataaatat ttataatgac 180
acaggttaat taattatgag gactggtaag ttactctaa aatgaaaccc attgaagtag 240
aaaaggagaa gatactcaaa gaaaagagat atatggtgat gtatgaaaaa gacaccgatt 300
ttagaaaatg aaaatgaaat cagatgagtg 330

<210> 4637
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4637

acaaacattt tgggatgtta ggtttacaag ataatgctta tcataacaca aaaatgacat 60
 gctaataccct tctatttaga atgaactcat gcccaactttt aatataaaaat atttatgccc 120
 atgcgtatgt gtagaatatt ccactattta tgtcaacgta ccaagacatt caacacattc 180
 taaatgccat acatatatat gcattntgaa aagaacacac atttctcatgc tcaaggcatt 240
 gcgtcaaatt cacacctaatt cacattctaa acacttgcta tcacgaacta cctacacata 300
 tttgaaacat 310

<210> 4638
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4638

agcttatata tagcaaacaa tgtactctta tggaaggaag caatattata aaaaagttcc 60
 tcttcttaatt cteccctttt ttggaggcct cctaatecct caattctagg atcataattg 120
 ttacctgctg cgcttggttg tgaactttga gggtcagcac ctcccgaaca caaagaggaa 180
 gaaagagaag ataagttggt ttcgaggta cagtgccttc agaggaagaa gacagccgaa 240
 agaagagtaa ttcgctaatt tcattcatga ttgattcttg tattacatag gcatatatat 300
 actgnattct aattttggca ttctgtgatt tctaa 335

<210> 4639
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4639

nttgataccc ttgcatnatg gacccttaga atactcaagc ttgtgttttag caagtttgag 60
 gtatctaagt tgctgagtga tgacaatgtg atatgtaaat ggagcatcan ggaaaggtct 120

acaaggggtgg gtgcctcaag ccaatggtga aggtgggtgg caagtaaaag aaaattgtgt 180
 tggagcaccc tatgaattgt agaatgggaa atggttgggtg ctaggaaaag atgaattntg 240
 atgctgaagt tgagacccaa ggggaagatc atgcacaaga aatattatga aggtgtgttg 300
 tgggtgtttg ttgcaacaag tgaggatcac gaggtctttt ggtttatgaa tatatgccaa 360
 atgggagttt gcttatttgt taaaggtaca acaaaagtct tttgatttcc ccctacgtaa 420
 aaaatgctgt gatgctgctg agggctttct attttctct 459

<210> 4640
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 4640

cagctatgcg gatttgtgcc tcgctggcga aatagatcga agtgggtttt aaaagaagct 60
 tttctgatca tcgtgctctg ataaacgcaa agattggcgc atatgaagag ggtgagaatg 120
 atggagaaac ccattgctacg actgccattc ctatacgggt gagattccca ccaacccaac 180
 aatgtcttta cttaatcaat aacaaccctt gttcttacct accaccaat tattcacia 239

<210> 4641
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4641

tactcaagct tctttcgaat tcaaactgcc ataactttct gctcggatgt ttgattgcag 60
 accataatat ttcaagatgc tcaaaattgg agatggaagt ccagataaaa ttcaaactgc 120
 cacaactttt gactaggatg tctgactgcg gccatcata taacgagacc ctengaatg 180
 attatggaag ctccgagcan attcaaattg tcataacttt tgaatcggat gtctgactac 240
 agaccatact atatcgagaa actcgaaatg aaca . 274

<210> 4642
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 4642

gcccagca tgaatggcgg attgtacgta aatatcacat tctctccgtt atttcttttg 60
 aaacagaccc catcccgtaa attgtgttta aaaggaaccc tctttcgtaa attagccttc 120
 atagatgtct ttctgaattt cacaatattt taatgcattt gaagctatat aaattatgaa 180
 atgaaaataa aaaatgaata gcccatTTaa ttatttcagt ggatataaca ttttagaaat 240
 aaataaggat taatagtgat ctttatctct aatactgaca aattcgtccg caaaagatga 300

<210> 4643
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4643

cgggacctt aagcacctga gctgcagctt atgcttatta tgtatggcaa aacttcatta 60
 ttggtggtca agacatacaa gtgagcttgt aaaaaatctt ctacacttga agtgatcaca 120
 tgcaatcctc ttgaaccctt accaccact ctgtcatcat gccgagactt angaaggcca 180
 acaggtttag ccttctcaat ttattctgaa caaaattcaa tggcttcttt agcaatgtac 240
 ctctcaacaa tagatgcttc tggatgataa agattctttg tatacccttt caagatcatc 300
 atgtatcgct caaccgggta catccaccat atgataacag gaccacaaca tttgatttct 360
 ctgactagat g 371

<210> 4644
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4644

ctgacttgag acattttatg accatanatg tttgtgcatt gcgaggcatc aacaagaatc 60
 aagccatggc tattgtgcac gctgtcaatg cggcatacca cacctttcga ctctttctac 120
 ggagagggtca aattttctta cttgcatctt tctaaaagat ttgttcaaac cttctcttca 180
 aaaaaaagtc ttgntcaaaa cctgtggaac caaatttcaa tacctgctcc tttgcaaaaa 240
 acaaagacta cccctgatt cttttgggca cttttcccta caaagagcaa aggctaccgc 300
 ctaaattctt gggctcttct tccttaacaa agaattcaag gactaccgcc tgaatttttt 360

gtctttacac aacn

374

<210> 4645
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4645

agcttgaggg atgagaggtc agctattctt attcttcttc cttgcagggc ctttgcgttc 60
ttgatccctt gagtcaccaa gtttaggtta atgagattca ttcttcatcc taaacttgat 120
ttgccttcat tctcttgctc tagtttctcc aataacttgt aactgccatt ntgtattacc 180
catgaaggat aactttgaaa aacctaaata ttcttcattc ttccttctaa atttcgtgga 240
gtctacaaga ggtaagggga gtctctcaa ctcttgaacc atgtgctttg tgctgaactt 300
acttgaacat g 311

<210> 4646
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4646

ggactagtct taagcataga tgaatttatg cttaagcatg actaagctta agcatatgtg 60
gatctagctt agcatagttg ctgtcaattt ccttggtgca tttaaacttg attcatgaac 120
caaatgagct aaagttgcat taaaaattga gctcattata taaatgagtt gaacttcagc 180
tgcatataat tcgacctcgt tagattcatg aatagactng acttatatat atatatatat 240
atatatatat atatatatat acatccaatt tcgcgttggt tttgactttg atgacatgtc 300
gaagtggaag attacttcac acaaggttag tgactttttg tgttgtgg 348

<210> 4647
<211> 185
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4647

aagatgctgg ctatctcgtc accaatgaat caccttgctc gcggtgtcac cctccatgct 60
 tacagatccc gctatacgcc gccattntag ttagattgct ggagatcaaa gtcacagcgg 120
 gtcataatca ctcgctcgtc tcagacattg cggttataga agaacgagtg attgatcaca 180
 gagag 185

<210> 4648
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4648

tctccccctt tctcaagcaa attcttaatt cttcttgaca tcatcaaaat cttcatgatt 60
 tacatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120
 ttgggaggca tgactaactc ttgagtttgt gctttgttta tttaaattcc taagatcatg 180
 agcaactacg tgtgttctac tatgacttga aaaacatcat gatgtaaact ccattttagc 240
 tctgatgcct aagatcttcc tcattaatgg ataactttgc tccttggaac atgaatggca 300
 gccgaatgtg aaaaagacat caaaaagaaa ctctcttttc tcgggaagat gagtcttaca 360
 taatctcccc cccatacn 378

<210> 4649
 <211> 267
 <212> DNA
 <213> Glycine max
 <400> 4649

agcttgcttg agaagtttct atggaggtcg aatctttgag cttcaataag gtccttcaat 60
 ggtgattttt agccatggag ttggggcgga agataaagga gaataggtga aaggaggcac 120
 catccattat agaatgccat ggaaggagaa gcttcaccac caagagagtg ccttgataa 180
 aaaacttata aaggaagttt caatggagga agagaatggg agaaagagag aaagagtggc 240
 gttgaaattg aaggagaata tggagag 267

<210> 4650
 <211> 355
 <212> DNA
 <213> Glycine max

tgggtcccca gagactaacc cttttgcaag gggcttcac aaggtgtatc tcaaagaggt 120
 tagggagtgc caagccaagg caaagaggta tcccttaca gaagaaaaag aaggcctcaa 180
 atcanagcaa gggaaatgat gaatcatcct ccaccatgca cttctcttga acaacatctt 240
 cagtatcgat ccctttggac ctttcaagtc atggtaatta attaattaac taatcttgct 300
 tgccatcaca ctcatgatca taaactatgc ttaactagga tgattaactc aatgcggtgc 360
 taggatctag ttttttt 377

<210> 4654
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4654

ttaaggcaca aatagtgatt tattgtgtta tgtacagagg atgaagaacc cattggaaga 60
 gggatatggca tatataaaga aaatggtagc cagttgcac aaacacagca aggtaatgat 120
 ggagaaatat attggaaagg aaagaaatgc gagagaaaaa aaattgtacc aaccnttcaa 180
 acatgctgct ccgatccata cgtgcntttt acttttttaa gtttttggga gctactntgg 240
 aagaaacctt tgagataaaa gatgagatgg gtcaccgaga agttgacact tatcactaaa 300
 tatatggatt aactcaccta aaatatatta acttgagttt gaatcttana catantaata 360
 tattaatat ttaaataaaa a 381

<210> 4655
 <211> 256
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4655

agcttcatca aagctccaac ctttgcacac cttttctgct ccaaatcgcg aaaggaagcc 60
 attttcggag tcgtgaagcg cacctctacg tgtgggactt caaaatttca cgtttgggta 120
 gacttcttct cacataaatt ttcgtgggta ttgggtnttg ggagttatga tgggtagttt 180
 tactaagttc atgcctcatg atagttattt gtgaagaaat ttgatgaaag catgttaaac 240
 ttgtcatggt ttgtat 256

<210> 4656
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 4656

tgtcgaaatt gccatgtttg ggtgagttag acatacccat tctgttttag ggtttttgtg 60
 atgatgtttg tgatgtttat atgctgaaat tgctaattgga aatctgttaa agacgaaggg 120
 tagaactaac ccaaggtttag aaagtgagaa tgtgatgtta tgagtggaaa aagagtgaga 180
 ctttgagagt tgggaaggcta agtcggaatt ctgtggtaaa tggagggttag agtgagtcaa 240
 tactagcttg aaatgtcatt tagaacatgt gag 273

<210> 4657
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4657

agcttagccg ctttgcanaa gcctcgtgaa tgtgtcccaa ttgatttact ttgaanaaca 60
 aaagccttgt tctagttttt cagatttggg tccatctctc aagttttcta caaattttac 120
 aactgcacat acgtactctt gtgctcataa aaagtataaa aatattttaac agttacaatt 180
 caggaacttc agaatatattg taaaatggat accacataac aaatccttcc ttcaaaaaca 240
 aagttattat gataacaaat gcactattgc ttcgatgtct atagtctgaa acgattttgg 300
 aataatctat ctaaatttta tgattgactt cctccagctt attctctcaa caacctaata 360
 taccttctaa aagaaattac ttgattttc 389

<210> 4658
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4658

acactataaa actaagcttc nacacaatca tntcatccc aattagttac agacttgttt 60
 atactgccac ccaacatctt tttcttccgc taaattgcat gtctcattat ctttattgtc 120

ctcgtcactg ttaacttatac ggtgtaccat actattatat acataattat aattatgcac 180
 gttatcgatg cgcctaaaca ttttaaaatg ttttaataca gagtaatttt gtcacttaca 240
 tacatgcgta ctgtatcaaa aattattttt caatgactat tctaaaacaa ttgttatatt 300
 ttntaataac atgggtcatga aatgctgaat attattataa gaataagcgt aaaaacacca 360
 aaat 364

<210> 4659
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 4659

ctgcaagctt tcatcggtgg gatttcatgg gatacgacgg aggacaagct caaggagcat 60
 ttcggtaact acggcgacgc tttgagcact tccatcatgc gggagaagaa cactgggaag 120
 ccaaggggct tcggtttcgt cgtttttgca gatcctaaca ttctagatag ggttttggaa 180
 gacaaacatg tcatagatgg cagaaccgga acgcttctat catttttttt gtcatttctt 240
 tacttcatgt tccgattgaa aatattgtat tgtacttttt agcgtgattg gtgctggttc 300
 tgaattgggg ataatcttga aacct 325

<210> 4660
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4660

cgtagaatgg ttggacatgg tatatgttag gggttggcca tctgttcggg gataaaggag 60
 acateccaca ttatttccat gatacacatg caacaataat gattaggaaa ttttatgcaa 120
 aactgggtcat gcatgcacct atgtggacac tcaagcatca aacttttatg gtcaagtgat 180
 gctagggatc atgattcatt ttctctactt tagtcaacct ggtgtttcca aaatatgttc 240
 ttttatcaat ttgtgcattc atccgagtct attttgggtg ttcgaaaaaa ctttcacagc 300
 atttaccctt caaatgtata cacatttntt ttcaaaaact ggttatgatc agtgaattct 360
 ttcaaagaaa agctggaaat tatctctttt cacaagcatg tcgttttaag ctagacaact 420
 ttttatcttt attattttcc tttntttct 449

<210> 4661
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 4661

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agcttggaga ggatgcttca atggaggaaa agatagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac cacaagtgtt acatatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacacccc tctcataatt aagctcacct ccttgagaag 300
cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
aagctcgctt ccttgagatg agaagctaga acttaactac acacccccta taatagctaa 420
gctcaccccc atgacaaaaa aacatgaaaa ta 452
```

<210> 4662
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4662

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aattccttca tctgacttat catcaaattt tctaattnt tcttttccat tgtttaatac 60
aaagcatttg caaccaaaaa catgaagggt tgaaatgtta ggtttttttt atcattaaac 120
agttcatata gagttttctt taaaatgggt cttattaaag ccctattcat gatatagcat 180
gcagtattaa cggcttcagc ccaaaaatat nttggaagag gagtgtcatt taataagggt 240
ctagcaatat ctccaaaga totattntt ctttcaaca actccatttg ttgaggggtt 300
ctaggtgcaa aaaagttatg ttcaatgcca tgcttatcac anaataattc aaatttttta 360
ttttcaaatt ccccccatg atcgctccta at 392
```

<210> 4663
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4663

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ttacatgggg acttagagca gctgacgtaa ttgcattaat ctgttcattc ttttctaata 60
agattgccga attttcaaata ttgataaaat attcaggatt tcttgaaatg catttgccat 120
ggaggtgaat cagatagtga gttttctcat agaataact ttgcttaaata gaactgtcga 180
gagagaaaca atcatgaggc atttaccgaa ctgtatgtac attgtacaat cacaatatat 240
attaacctaa taataaatac atggatcatt acttncctaa ttatatgaac ttactaactt 300
atataccatg aatttggacc tacataatta tatgtagnta tgtacaaaga acctggacac 360
aaatgtaaata tataaggtca attacatatc caa 393
```

<210> 4664
<211> 296
<212> DNA
<213> Glycine max

<400> 4664

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tgagatgtct tctatctggt cattcgagta gacacaagtc ttgacaatgt catgtatatg 60
gatcttcgtt ccttatagaa cgtaataag atttcaatat gtgtgggtttt gtcgagcatg 120
attgtgttca aggtactatg tagggcaact atattatcac acaggtcaat tcagcatctg 180
cacaatgtga atctttgaac aactatctta accagactag cttatatgta ggtagtgagc 240
tgtccaagtg agccaatttg gctcatccag gttagctaaa atgtgagttg aagcca 296
```

<210> 4665
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4665

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tggetgactc ggatcttgag ctaagagccg cggctgcagc tatccaatgg tcggatttta 60
ctttttcccn cgcgccgacc atgtaggatt ctaccgcgac gctattatcg atgggctcct 120
gccaccttaa tgactactga ggccgcccaa gagccttggg aacgagatac ctgctctatg 180
ctccctgtta catctggaga tggcggacca ccatgtctac cctggccgaa cagagaccgc 240
catatcaccg gtctcaccca caccgtaata agaagctgtg acctgtgagg aagatatgga 300
```

gatgtatgag gcgctcgaag agaggtccag agcagccaaa ggccttgaca acttctcatt 360
 ctcagatttg gtgcgattat gtcttgcgcc cacatcggat tcctctcaag gcaagcacca 420
 acctcgtaag tacagggacg acaagtccaa aggcattacg gacagctgcg tatattcacg 480

<210> 4666
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4666

caatcaatga aacttccatc tttaatggag aggagtacca ccaccggcaa cctgaatgca 60
 aatttatatt gaagcgatac acttaaacad ttgggaagcc atataaacat ggacttatat 120
 agccaccaca gtcgaaagaa ccacaataga tgggagcaca acaagtgaac gcatagcaat 180
 agagaaacct agagatagat ggtctgaaga ggatagaaga ctagtacaat acattttaaa 240
 agccaaaaac ataattacat ctgccctgtg aatggatgaa tatttcaggg cttcaaattg 300
 tcagagtgtc aacgaaatgt gggacactct acaattaaca catgaatgta caacagatgt 360
 taaaagatcc acgataaaca cattaaccta tgaatatg 398

<210> 4667
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 4667

gactacggcg acgctatgag cactctgata tgccgaagat aaaaactgtg atgcctaggg 60
 gcttctgtat agaagcttgt gcatatccta tcattctata tagggacttg gagcatagtt 120
 atgtggtaaa gggtaacttg gagacgcttg gctagattac ctagacacct cttttccaga 180
 tgccacgctt gccacaatga gacttctatt gtccttagct gttgtcacta gatgtgatct 240
 caggcaatta tatat 255

<210> 4668
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4668

gtattattgg tataattggc ctgttccatt atgcttttaa tgtctataga ggctacttcc 60
tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattgtt actgtctttg 120
atattcggca gttgatattg tgttgcggga ggcaattccg attggattaa ctcaccatcc 180
ttcacttgcc aatntgttat gacatattgt cgttgaatca cctatgatgt cttgattcca 240
agggtaatct atatcctttc tgatggcata agcatgaaac caatcaaaga aaaggacatt 300
cattttgact cttttgacaa att 323

<210> 4669
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4669

ngtagcctag acgcgggccaa gataccagct tgcataaacc ctggaatggc cccccatttt 60
ctgctatgaa cagatatata atgacatcct tactaaccac acatgagcga cgaagccggc 120
tactgggtga gacgctgagt gaacattatg gagcaccatt gcttatcaca gatgacttat 180
aactgggacc ccatcatgaa caagatcctg cagagcatgt gccatataaa gggcgatgta 240
ccatcaatca atggggacat gtaggtctat ctcttatgat gtatcgcaaa ccaagtggga 300
tatatatgcy cctctcgaca tcgaccacgc gtaattgatt gactgagctg cctgggttaca 360
ggaacatcca gacacgggaa ccagttgctt cgataggggtg atatccattt gcctccgatg 420
atgctgcaga aagcactatt tcttctacat taacagttat agtaccctgt gagttgaccg 480
agcg 484

<210> 4670
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4670

agctttagtg aggaagaaac cagcaatgat tttcaagggtg gactntgaga aggcttatga 60
cacagtctca tgggtctttcc tggactatat gctgtataga ttgggctttt gtcataaatg 120
gagaaagtgg atctcagctt gtcttcactc agcaaccatc tctatcctta ttaatggcag 180

ccctacaaag gagtttaccc catctagagg cttgaggcaa ggggatcccc tagcccctct 240
 actctttaac atagttgggg aaggcatctc aggcctaatag aggggaagcag ttaggaagaa 300
 tctatatagc agctacaggg ttggtatgaa ttatgagccc acaaattatc tgcagtatgc 360
 agatgatact gtttttgtgg gtgaggcttc ttgngaaaat gtct 404

<210> 4671
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4671

tgtacttaac tntgcttgca tattctgtgt aactctggcc tatagtctca accatcaaatt 60
 cctcttcctt ctctgccttc tgcttataat acaacaagca tactgccaca ataaatagca 120
 gactcagagg tgctcgaagc gcaatgcagt atgttacaaa caaaagcatt gttgatgaat 180
 atattggatg acggacccaa cgataaggctc caaattgcac tacagaagtt ggctccacca 240
 cattttctga atacttagcg agatacaatg tagcattata ctgcattagc agagttgtaa 300
 tgattaaagc ccagattcca agattgctcc acccaccggg tatgagggtga agctcangcc 360
 cttcaaagtc tgcaagccaa tggccaacca tgactcctgt gctgaacaat aggcgagacc 420
 acattggcaa gttcacg 437

<210> 4672
 <211> 286
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4672

agcttaagct cttttttctg cacttggtctc ttataanncg aagagcatcc ctgtggaacc 60
 tttacccgac gaagacactg acaaaaactt atcttcttct ttgtggacaa agtatggtaa 120
 gctgggggca acgaaatctt cttcccatca aaccttggat gcaaattgtga tcgtatgccc 180
 atatcagcta gaacttgacg ggtattcaag ccattccttcg tctcgccttg aatgttaagg 240
 agccgccccaa tcacactgtc gcacactatt ttcttcacat gcataa 286

<210> 4673
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 4673

taatgttcat attattacac atatattccc tacaacatac acattagtga ctctcttgcg 60
 tccttaacaa ccactggcgt ttgaccacta gtggtggcca ttggagagga atttcgccag 120
 gggcattttt gtgatacttc atccgaaaac ccagacaccc actccccaca cgaaaattca 180
 tctaagacca t 191

<210> 4674
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4674

ccctgcaccg cacnngacca taangngaca cgcgccaccac tataccaggg gccnnnnnnn 60
 tagtgactcg agaccanna cggaanaaga cannagcnan gaaagaaaag agaacagaag 120
 ttctgtcatg acaagagacg aaacaccggt acaacgcaaa gcaactaccg gcgccggcac 180
 cgggctctca acgtccaccc aagaacaaaa agagcaagaa ccagggaaca tcatacgaga 240
 acgacaacaa aaacccaaag gcgaaacatt tctgcacacc ccaccacaag atgtgatctc 300
 ttacagcccg aacaataatg caccagctag cacacgccgc aacaccgtga gagctggaga 360
 agaaacagaa aaactacacc gcagtcaagc acggtaaaaa gcaaccacgg ggaccaacaa 420
 atgcgaaaaa caaaagacct tgaagagggc actgcagaaa agagacaaca agattcctgg 480
 gggctgacct tggcataaca caacacacga ggcgcacggt cgcc 524

<210> 4675
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4675

ggaagatggt gctntaatgg aggaaaagaa agaggagag tattattaga tgggggagca 60
 caaaattgaa ggaaaaaaag ggagagaagt tgaactttga gttatgtctc acaagactct 120

cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
 ttgagaagct ttcttgagaa aacttcctag agaaacttct ttgagaaaac ttccttgaaa 240
 agctagagct tagctacaca cacccatcta aaaactaagc tcacctcctt gagaagctag 300
 agcttagcta cacacccta taatagctaa gcttaccccc atgacaaaat acatgaaaat 360
 acaaaaaaaaa atcctgctac aaagactact caaaatgccc tgaaatacaa ggctaaaacc 420
 ctatactact agaatggcca aaatac 446

<210> 4676
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 4676

agcttataag aacaaaattg cctcaatcat attcaaatat gcatgtgaat taggaagcat 60
 caacaagaat caagccaagg ttattgtgca cgcaatcaat ggggcaaac acaccaaag 120
 attatgatga tggatggctc atattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaaa 240
 aacttttatt ttccaaaaaa ttaccattt cttgaacata tcctatgatt catagaataa 300
 catgcaaagt cgtacatgca cacagaattg acccataata ttatactaag aatccgacaa 360
 aactatatca cattaacata ttaacacaac tatcatatta a 401

<210> 4677
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4677

aggcacncnn nnnnnnatag tagggcttgc acnntcttcg aatnaganaa aanccaagcg 60
 aggangaagg gtngaattgt gatactaccc gcaaaacatg natacctcna acgggcacca 120
 ccagcggatg ctgcgngac aacgactgca tcacgtcgtc aactggattg gtctagcccc 180
 agggagaaca tatacacaaat gtagcctggg ctctggaacg gtgtcaaagt attcctgtaa 240
 gatgcgatgc catgcctcct gctgctgttc ccgctagaga ttgagcattg ataactgcaa 300

tgaaagctgt gttccttgac gcaacaaact tgatgtgttg ggatcacatt gatacgaata 360
 tgagagaaaa atgtccaacc cttgtgggtc aataaaatgc atgacattat gtcatgggag 420
 cctgggagag tctggtggat tgccttctga caagagtcaa tgactgctta taagttgaaa 480
 tgcttgtcac atggcaatgt agtgactatt tct 513

<210> 4678
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4678

agcttcatct cagagagact gatccaacaa ttatcaaata gagtntaata taataacgca 60
 acaacctata ataacacaaa ctaatcaagt ggaaaagtgc gttttaatgg cataagataa 120
 caaactaacc gacaaagcaa aaagcagtta aaaattttta gcaagcttta gctctaataa 180
 tcttcttttt agntggacta tatgaagtcg atcgcaaact nttctcataa tctttgccat 240
 tagtacggca tacatacaag ttatacataa gctatatgct gtaaacccca cttgtaatgt 300
 cggcattgcaa attattttaac tccggaataa accatttcat tagtactaat tacttaagca 360
 cctaacattt ggtatagatc acattgatat tctccttagt attgggttgaa ctaagtagaa 420
 ttattataag acacaaaatc 440

<210> 4679
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 4679

cttcgccgtg agtagtatga gatacttaaa tcaagagtga cttgtttaca ctatgtaacg 60
 gagtaggagg taaaacttgc aatgatgtca actaatgttg ctatggcact gacatgccaa 120
 tttccatttt catcctatag acataaaagc atagaatctg catgataagg gaagataaat 180
 gcttgaagta aaaggagaat cacattatta tcaatctatt accaacaagc cactgtgtat 240
 gatcaagtca caaaggatga aacctttgtg tgcctttact atccggataa cccttagggg 300
 ggaaagaaac tcttgaccat aagttccatc tgacaggcct tttatccatg tccggatcac 360
 ttctagactg ggatctttca tctctatctc aacctgccc acaaaccaga 410

<210> 4680
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4680

gctntgacca tttgaattgc tcaagcgctt tctttgttca atatcgagcg tctcgatcta 60
 ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt gctcaagagc 120
 ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga cctccgagtt 180
 aaaagttatg tccatttgaa tatctcgaga gcttccgttg ttttaatttcg agcgtctcta 240
 tatgtgatgc tcttgaatcg gacctccgag tgaaaagtta tgaccatttg aatatctcga 300
 gagcatccgt tgttcaattt cgagcgtttc tatatgtgat gcgcttgaat cggacctccg 360
 agttaaaggt aatgaccatt tgattttctt aagagcttcc gctgttcaca ttcgggcgtc 420
 ttgatatttt atgc 434

<210> 4681
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4681

ggtctaaact nttcactcgg agctctgatt atgcacatca catatataga cgctcaagat 60
 tgaacaacgg aagctctcga tatattcaa tggtcataac tnttaacttg gaggtccgat 120
 tcacgcacat aatatatoga gacgcccgat attcaacaac ggaagcactt gagaaaatca 180
 aatggtcatt acttttaact cggagggtccg attcangcgc atcacatata gagacgctcg 240
 aaattgaaca acggaagctc tcgagatatt caaatgggtca taactcttaa ctcgagggtc 300
 cgattcatga gcataatata tcgagacgct ccgaattgaa acacggaagc tcttgagata 360
 ttcaaaggt cataactttt cactcggagg tctgattcaa gtgcataaca catcgagacg 420
 cttgaaatta acaacagaag c 441

<210> 4682
 <211> 337

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4682

taatgccata aacctatgga attaaataaa acttaatggc tgagtgtaac tgaaattgtg 60
gcaacaaaaa ggcacccaca acaggcaaca agtcagccac catttggtat cacaccaggc 120
tgatgcctag gttgccaatt gggcccttaa tacaacttga actagaccta actaaagccc 180
ttttagtnga gtaacccaaa acatatttat ggtcaaccaa ctttacgagg attgtgccat 240
tatttagaca aactaaatac ttataattg aaacaaagcg gagagattta gacctcctcc 300
attgcgccat gatacaactc acacacttgg acttttcc 337

<210> 4683
<211> 285
<212> DNA
<213> Glycine max

<400> 4683

agactagatc gtggatattc gcgttctgct ctgttctagg atcaaggctt ctatatatgg 60
agaaccagct tgtcacacct gcatatgtat gagtctcgct agtttcttca tgttttaaaa 120
tgagttatgt atatggttat gtatctacaa ctgaaagtga tggcaaacct tctcttgttt 180
gagattgtct tgtgtctaaa agcaatcaac taacagatta tatctaactc acaatgaata 240
gtgttttctt ctctaagcct tcataccaca ttgtatcaag tacat 285

<210> 4684
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4684

ctgcaagcat tgcaagcatc gnattngtgc tctaccatat cttaatatgc atgagaatta 60
tgaagcgctg gagacaaact gacattttat atatgactcc actttaatca tttttttatt 120
atctatctag acacttaaca tcaatgtctg gtttggaatc tcttttgtct atatcaaaca 180
atctcgatct tttttcattc ctcatatact ttcatctcta ttcatgcata tcagccaaac 240
acaccttaag gagaaccagc tcttcaacgc tcctactcag tgagaggat atcctatcct 300

ttctttattc tccatcatcc ggcgattaag tgagaagcaa ttctacattg ggcttttgtc 360
 ctcaaattgt ggcacaaaaa gtatgatagt tggatatacat gcacttcgat gtctcacact 420
 c 421

<210> 4685
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4685

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 ggcactggaa ctaagaaatt tcacagtaca tatgcaaaaa ttgaaaaaca agtgggaagaa 120
 gaacgcaccg agatagatct cctagaaaga tccgctactg attttctgaa aaatcagaat 180
 gtccttcttt acctcctccg cgacgaagtc caattggcca ccacaaagac ggtgctctcg 240
 tcggcggcct cgggtgtcac caccgcaatg gtggtccact ctggggcgag caacctcctt 300
 ccttcgaagc tccggtccta catcaccaat ggcattccaca acatgttctt gtgcttctcc 360
 tcggagataa ccctaattatt gatgagttcg acggtctcgt caacaactaa atctac 416

<210> 4686
 <211> 175
 <212> DNA
 <213> Glycine max
 <400> 4686

agcttctagc caaatggact taccttgaat tatattcctt tgatagccct tttgagcctt 60
 gtttcccttt ccttgttttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
 catatcctta aggaattttg gagctttgga attgttttgg gaataagtgt ggggg 175

<210> 4687
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4687

gaatntggat ttgtcataga tagtacctac aaattattta gatatagatt gtctttactt 60

gacattgttg gtgtgacacc aactggataa cattttcaac tgcatttgcc tatttggagg 120
gagaacatat aagcaatgtt gtttgggctc tggaacgggt tcaaagtatt tttctaagat 180
gtgatgcaat ccctcaagtt actgttaccg atagagattc agcattgata aatgcaatga 240
aaactgtttt ccttgaggca acaaacttgt tgtgttggtt tcacattgat acgaatatga 300
aggaaaaatg taaaaccctt gtgggtcaaa aaaatgcatg agattatgtc atggaagcat 360
gggagagtct ggtggattgt ctttctgagc aagagttcaa tgactggctt atgaagtttg 420
aaattgcttg ctcaccatgg tcaatgtttg ttgacta 457

<210> 4688
<211> 183
<212> DNA
<213> Glycine max

<400> 4688

cgcttgcat cgacagagga gcttattcaa tgtagttatt aacgctacga aaattcaggc 60
tctaaagaag gagctgaatg ctttggaggc tggatatctt gacagaattc tgaatcaatt 120
tgaagcggag ctcaagaagt ctcttcagga gcaatcgtgg cacgctcgct atgcctatga 180
atg 183

<210> 4689
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4689

agctcgact aagcacttag acccctgact agttggctgt ttatttagct aagtgcacat 60
cactacgtta agcccaacat cttcattgga agtaaacctt aagcagtggg cttagcagac 120
atgatccgct aagcaccact tcttctctgg aaaagcttat tatagcagt ctaagcgcgt 180
tgtcctgagc taagccccag atccattctg gaattgaact ttcatacttg ggcttagtgc 240
ggcaggatgc gctaagcgcc aatccttcac tgtgntttga attcttggaa gtgtgcttag 300
tgcacctgtt gctaagcc taaactactc tctgcaagtc gaagcttgat tgcgcgtaag 360
cctcacctct atgctaagcg cctattcaga aatttcgcgt cgcataagcg ctata 415

<210> 4690
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 4690

cgcttgcccta tcctcctgat tgactctata tctttatagc tgtacccagc acactcgttt 60
 gaccactgtg agaagtaaatt tctcatgctg agaacagtca acacatctaa gctggaacat 120
 ctataaaact ataagcattt aagcatgttc aggctataga ttcccaattc agggatgtca 180
 cctaacatga gtgaactgaa attacaggag cgtgctgctt atataattct gaagctgtta 240
 cagggggaag catagctcac acgagaatgc ttttccctgt t 281

<210> 4691
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4691

agtaggggta aagtctcacg attgtcatgt gttgatgtaa cttcttgtca tacaaagtca 60
 ggtagccat aactcgctg tgctatntct tccatgccat atatagcana gtcgttgatc 120
 ctgtcaagta tgatgagctg gaaaatgagg ccgaaattat actatgccag ttggagatgt 180
 atttttcccc tgctttcttt gacatcatga ttcacttgat tatggatctg gtcagagaaa 240
 tcaaagtgtg tgggcctggt tatttgtggt ggatgtaccc gggtgagcaa tacatgaaga 300
 tcttaaaagg gtatacaaag aatccttatc atctagaagc atctattgtt gagaggtaca 360
 ttgcaaaaga agtgattgaa tcttggttcag aattcattga gaaggctaaa cctattggcc 420
 ttcctgagtc tcgcatgat gacagaac 448

<210> 4692
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4692

agcttgtagg gttcacccca nattctcggt gtcatatgct aaacttgatc ccatatctac 60

ttgataattc aatggtagcc ataaccctag ccaaggttca tcaacctcca tttctccgag 120
aatacgactc gaacgcaatg tgtgcttggt acggagaagc cccggggcgt tccattgagc 180
attgtacggc tctgaagtgt aggggtgcgag gtctaattga tgctggctga aatttgagga 240
gaatcgtgtg taaatcctga cattgacaag agatgccaca catggtgcaa ttttgaaagc 300

<210> 4693
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4693

gctttaagaa aaaccttatt tatcactcac tagacgacat tcttttgtgt taaactaaaa 60
ctaattttct atcactagat gatatagttt atcttggtat cttgtgaaaa actcttcttt 120
gtgaaaaaag cttatatctt tgggtaacac acttttcgac ccctttctaa tatgatcttt 180
gatatttcaa aagtgtacta gtcttcttcg tatattggct tatgactcac ctgctgatag 240
tgtggacatg tatattcaga ttactaaaag cactgtagtg gaatgcttac aaaaaattgt 300
atcaaacatg tgtgcaatat ttggggatga gtacccgagg aggccaaata ataaagacac 360
atgaagacta caaattgaag cagtacatgg ttntctaggt atgttagggt tcattgattg 420
tatgcaatgg gaatagaaaa aaaatgtcca gttgcgtgga aaggctca 468

<210> 4694
<211> 433
<212> DNA
<213> Glycine max

<400> 4694

agcttagtaa gcttatcttg atatgagttg ttgaaaatca taatataata ttctaattct 60
attaacaata gcagctcata acacacacta ttttttgttt acaggacaaa acatcttcta 120
tttatgcata attaatgtaa ttaacctata taaacacaca tctattgtat attcaaacac 180
acatttgtga atcatgcagg ttttgatgat gtcgaaaaga attcacttga taacgattgt 240
catcatcaaa aaggagagaga atgtgaacac ctagagtgcg aatgtatgaa tacatgattt 300
tgatgatgcc aaagaataat caaacaaggt tactttcaag attacttcaa caaacattca 360
aaggttaaagc attgcttcaa gattaataca aggttgcttc aacaacaag cattgcttta 420

agattaattc aag

433

<210> 4695
<211> 440
<212> DNA
<213> Glycine max

<400> 4695

tagtagaaat tagaattcct ttagaacatg ttttatgcac cttgtaaaac tagactgtac 60
aagattagac aatgtaaatt cacactgtgt ggatttacac taagtataat taatgtggat 120
cactctaata tctatgtaat tagcaccatt gtctacgtta attagctagt tttacttctt 180
ttggtgaaaa aagttgcctt ttatgcctaa tcctatctta ataatttata acaatatatta 240
caaaaaggaa actacaaaa aatggctagg gctcctcacc aactgcacct tctctctctc 300
tccatcaact tttttcttta atcaagtgtt tggtgacatg aggtagctta agaccaatg 360
tgcattggga acccttgaac ctatagctat cctagacttc ataaacactc caagttcact 420
ccactttgtg ccttgctatt 440

<210> 4696
<211> 239
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4696

agctcgtaac ttgtttatgt anaaaagaag ttattaatct tgtgtcttgt aagacagtat 60
ctcaaagatg agagatgtat gcaggtatga caaccgacga gtgtataaat taaatcagct 120
cgagtattga tgttggagtc ctcagcaaca aaatggatca attataatac acccacatgg 180
ttaatgaaat aaatcatttg tgatattatt aattcggatt aattatgtac ctgtctctt 239

<210> 4697
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4697

taacgtcctc acntgtcaac ttacgatctn tnnnatccaa taaccannnn nccnnaaggg 60

gnnnnnnnnn nntttctggc atgagaacgt ccacanccaa acnnnagcnn agnnnaagnn 120
 annaacaggg agaagaaaac cggccacatg tattacgcat ctatnaccgc aaaagaagga 180
 ggctaaagaa cgtcctatgc tcgcacggac aagttagacg acgatgagca agcaaatttt 240
 acatgctcgc tgaggaaact ggaagacgat actgatccgc aacaaacgtt actgctcaac 300
 tcgaataaaa atgtgcaagt caaagaacc ccgagtcgcg aagagcactg gatggccaac 360
 ttgaaccaat tacacaaatg acatcggaag tggttgtcac taagactcaa tcagagattc 420
 cactagtcac cgctggaaga acaggatggt cctcacaaaa aggcgaaaca tcgacgagca 480
 tatatactca taaaacaaat gtatgccaag ccacctacaa aaagactcac ccatcagcta 540
 aacacctgaa tgacccgctg aaagccg 567

<210> 4698
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4698

agctntgatg atatggtctt caccgatgaa aggatcaatt tgagtctaan aagaggcaaa 60
 tctgatcatc atactttgat aaatgccaaa aaaaactagg gcaaatgaag aggggtgagaa 120
 tgagggacaa gcccatgctg tgactgccat tcctatacag ccaagtttcc caccaaccca 180
 acaatgtcat tactcagcca ataaccgacc ttctccttac ccaccgcca gttatccaca 240
 aaggccatcc ctaaaacaac cacaaagtct ggttaccgca ctttcaatga cgaacatcac 300
 ctttagcaca atccaaaaac accaaccaag atatgaattt tgcagcgaga aagccttaga 360
 attcacccca attccagtgt cctatgctga cttgctccat atctacttga taattcaatg 420
 gtagccataa ccct 434

<210> 4699
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4699

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aaaattgaag gaaaaaaagg gagagaagtt gaactttgag ttatgtctca caagactctc 120
 attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactag gtagcttcct 180
 tgagaagctt tcttgagaaa acttcctaga gaaacttctt tgagaaaact tccttgaaaa 240
 gctagagctt agctacacac acccatctaa aaactaagct cacctccttg agaagctaga 300
 gcttagctac acaccctat aatagctaag cttaccccca tgacaaaata catgaaaata 360
 caaaaaaaaa tcctgctaca aagactactc aaaatgccct gaaatacaag gctaaaaccc 420
 tataactacta gaatggccaa aatacaaggc ccaaagaag gaaaagaac 469

<210> 4700
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4700

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 aggtagtcac aacctcacia aagatatata tacttataca tatatatata tatatataga 120
 tatacatata catatatata tatatatata tatacatata tatgtctggg gagaacgatc 180
 ccttgatata gcgtgtatgt tgcacaaaaa atttgacaac atatgtatat gtgtgattag 240
 gcagcaccat accttggaac tgccctgtgat tagataaata tttctcagaa catatatata 300
 catgcttagg ttgaagaact ctctgtggca cacatgtata tagcacaata cctcacaaaa 360
 attcacgtgt gctcatgtag catacacctt cttgtatcac ccgagagcgc tctagactag 420
 attactacgc aatacacttt cgaacgagac tatctcctca atccatagcc gtactcatgc 480
 gccgctcatc tcatcatcca ttttccaga tcgcactcc 519

<210> 4701
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 4701

cttccttttag tgcgtcacgt ttaaaaccga gctcgatggt gtttgttata cttgatggta 60
 ctcggcggga agagatggga gatatcgaca ttccattca gataggcccc cacacttgca 120

atgaggtggtt tgacgtaatg gatataaatg ccgcctatag ctgactcttg ggaagacctt 180
 ggattcatgc cctgcgagtg ggcccttcaa cgcttcacca gaaagtgaag ttcgcagagg 240
 gtagactttt agtgatagtg tctggtgaag aggatatgat agtgagtagc ccctcctccg 300
 caccgtacat agaagcggcg gaagaatcat tggaaacggc tttccaatcc tataaagtgg 360
 agagctgcgc ctcggtggaa ccaagtacgt cgctactttc tctctccaac gtggacataa 420
 tgggtggcgcg tgttatgc 438

<210> 4702
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 4702
 agcttgccgc cacggagttt tccgactatg ctcttgtggt gtggaacaag ctacaaaagg 60
 agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggat 224

<210> 4703
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4703
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 ataacttttc acccggatgt ccgattatgg cgaatcacat atcgagacgc tcaaaattgg 120
 acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtccgattca 180
 cgcgcatcac atatagaggc gctcgaaaag gaacaacgga agctctcgag aaattcaa 240
 ggtcataact ttncacactg aggtccgatt caccgattata atatatcaag acgctcgaaa 300
 ttgaacatcg aaagctctca agaaattcaa ttggtcatca cttttcacac ggatgtccga 360
 ttcggcgcat atatgtcgaa cgcttgaaat gaacaacgga agctcttgga aattaaatgg 420
 tttaactttc acacggatgt caattcaacg catacatat 459

<210> 4704
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4704

agcttacgtc atggttcaat gtatgggttt cttgagcctt atgtttatac acaatgcana 60
 ggatagatgt caaaaatttc aacattacat taaaacatgg gtgaaggaat cacaacgaga 120
 agcatactta ggagcttact tgaatcaata tgtaaaatat aactagtacg ttcaaaaaaa 180
 tatttgcatt atacgtacct aattatagtt ctggacttta gggcacaatg gaagcttggt 240
 gttgtgtgtc catgggacaa tactattggt tggttttggt ctttgcgtaa gaagcctgat 300
 gttaacatca aagctacaat taacagggtta tggtttaaaat tataattcat ttattgtata 360
 acaatcgtag gatatgtaaa cacgaatttg atgctatat 399

<210> 4705
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4705

tagggatgaa gcaagcaact cgcttgggtg agctgctgtg ttatctccac cccttatttc 60
 ctataactag gcatgatcgg ctgcaggaaa agtccagaac ctgaaatcaa caagatttga 120
 gagaaattag tgagaagaag gagaaagacg aagaacaatc aaggttgaga cgcttccgta 180
 acacttccgt aacgttgtcg tgatcgttct tcgtccattc ttcatcgttc atcattcatc 240
 gatcgggttag ttnttatttt tgaagctttg aatttattct atgcgccctt aggtgatgga 300
 agcttgcttg tggcgcttct atggaggcta gatctttgag cttcaatggg gtcctttaat 360
 ggtgattntc caccatggag atgtagcgta agacaaagga gaagaggtga gaggaggcgc 420
 cattcactat ggaataagcc atggaagaag gagcttcacc accaagatga gcc 473

<210> 4706
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4706

agcttcatga cgaagaaaca agttgtttca attatatttct gacgacgaca aggatgatga 60
ctcatagccc aaagaatgat ttcaagatta agtccacaag atcaagatca agattaattt 120
ccagtctcat acgacgacat ccatacgaat ccagactcat gagacgcttg atttccagat 180
tcatgagacg atgaattccc gatttatgag atgaaaccac gacgacttca cacggggagt 240
attgcaaaga tttttcaaac aacatacata gcacactttt 280

<210> 4707
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4707

gtcaccat aattcgcca tattagggca accaaaattt ttatttatga atgacgctct 60
cctacaagct aagaccaggt agaagagat caactgtata ggctcanggt acaatcaaac 120
gatcatactt ccacctcaga atggcagcca gggatatatc aatcatgcac aatgtaagct 180
attagctaag tggctatctt caatacaaac atggccttca tcatctccaa tttcacacat 240
tcattccata ctcatgattt catgcataaa tcattactca atgttaggca ttctctcaca 300
attaaagatc acactttcac cgggttgctg ctaatgcgtt ccttcacaat caactcgaca 360
aaccaactaa cattcttagt catgatccta agtcaatgtg ctttctcttc taacgactgc 420
atgctcattc 430

<210> 4708
<211> 217
<212> DNA
<213> Glycine max

<400> 4708

agcttgaagg cgctaccaac gaatatgatc actcatgttc taacacgaag cacagcggat 60
aagtgatact ctgatacatg ccatcaaaaa atatggtagg atgattacgt cgataatgat 120
ggacaagacg aagatgtgac tgccattcct atgcagacaa gattgccacc aacctcccca 180
tgtcattact gagccaaata cccacccttt ccttaac 217

<210> 4709

<211> 338
 <212> DNA
 <213> Glycine max

<400> 4709

gtgatctacc accaccgcca ccaccatcat cttagttttc tattatttaa tattactagt 60
 actttgcttt ctagacgtgt atttggtat attatgacat ttggatatac taaaatctgc 120
 aatccctcac tccttggttt ttctattttc ccaccattct tcaattcttc aaatgcagta 180
 tgtccctcag aattttctca tgcaccatcc aactctgtaa tacaagtctg cacttcatgt 240
 tcctcctctt tagttcttct aggtgcgacg gtgactccga acgactggca gaatcctgtg 300
 atcaaagcgg gaaataccag ggccctattg gacttattc 338

<210> 4710
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4710

agcttctaca ttgtagttga gacctattat ttatattaag cttctttcaa ttaattgact 60
 atganaactt actanattag attaggtgct ccggctagat tactgggtgga ttcactttat 120
 acaaagaatg attaactcgc ttaggtaact tgtaaccaat tgcaagtacg gaaaatgaaa 180
 tacacctaat aacgaacctg taaatgacta gcaacattct cttttgtcaa acctgngaca 240
 ttcattctctt caagaattct ctttggcaca acctctaaaa aataatttag gcagaaaatt 300
 gtaagtgata gatcataact tacatatatg tatgcgtcca tatattcttg aattgatgct 360
 catgcaaagg ttcaattcaa anatcacacc gcccaa 396

<210> 4711
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4711

ggacactatg aaactcagct ttgcattgat caccctttgt aatgtgtcac cccaataact 60
 ctgactatga aacagtatat agaatgattt cttactaat ccanaagga aagaggaagt 120

tggctacttg gtggttcact gaatgaactt catggagcac aatgtttttc aaagatgatt 180
tatatcttga gttccatctt taatagatct gttgtgcatg tgtcatataa ggtttgatgt 240
agtatctttc aatgtagtct tttagttnta tctcttctaa tgttntgcaa aagaagtgg 300
ctattatgtg tatctgttat ttgagcacgt tcaattcatt gactgagttg cctgtttaca 360
ggaacatcca gaaaccggaa ccagttgctt cgataggggg aaatcctttt gcataggatt 420
atgctgtaga atgtactatt ccttttcaca t 451

<210> 4712
<211> 214
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4712

agctntntat tttcagtaga tgaatatgaa tttgtggcca tcctcacgga cacctctaag 60
agcaatagca tcatttcttg cactgagttg ttgcgaatcg gaaaccatct tctcaatcaa 120
attcctagct tcagcacggg tcatagtacc aagagctoca ccacggcag catcaatcat 180
actcctctgc atgttgctaa gtccctcata gaaa 214

<210> 4713
<211> 576
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4713

accacacntc cccacgctcc gcacacgcnc gcgtncatga tntnnatctt cncctaccctn 60
nnannaaccg cgcngcanan nnnnnnnnnn nttggatgac ctgagacctc cggnaccaan 120
acaacgcacg acagagacga ggacgcgncc aagggagaaa cacacagccc ttattcaatg 180
tttacagacn ggcacctgca gacagggcgc ggaggacacg agaccacgga cacgacacgc 240
ggagcgctac agacaaaac caagcgagac caaccccgac ccaacccggg cctaggcgga 300
cagagagaac cggagacgca cccaaacagg cgagcaccgg gcagcaacag atcaaaggaa 360
caaagaccgc aaagcacgga ggcacggagg gcagaccagc ggcgaaacct gtggacacac 420
gcgacaccga caccgggaag cccaacaca ggcacgcgat cgacaccccg ccagagggcc 480

aaccggcgca caacggcccc cgccgaaccg acaccggggc gccccgaaga ccaacggcag 540
accctaccac ggcgcaaccc cgaccacgcc gcgagc 576

<210> 4714
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4714

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cgcactttgc aaatcagacc atatattttg ttactagctt acttgaagta cctgtatact 120
taactcagac ctgcaaaaaa tactcggttc tacgagctta aacatacatc ccggcactaa 180
ggcacaatgg aagcttggtg atgagagtc atggcacaag gcctacgcac tgatctgtgc 240
ctagacacac acccatctca cagtctttac actcaacacc ccggctaata ctctccgata 300
ccctcgtcac cgctggacga gctaaatctt actggacgct ctagtcttac ctcaactttg 360
ctgttgacta gcacttatgc cagaccccaa tgactacctt ccccc 405

<210> 4715
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4715

tacctcgacg gtggagcagc ctgttcaatg cacgtcctcn tttctgacac ccaacggagg 60
agaagaagga tcaaaggcca acgaaaatga cacggaggga agaagaatag cagcggcgca 120
aatggaagct tagcttgctt gtgtacgtat aacatgaaat gttgatgggt gcacaaaaat 180
cttttaaatt aaggccaggg gtatttttga cctttcacat taaatggttg gtgcacctag 240
catcaccttc atagaaagcc taagtgtgaa aaggagaatt gtatgggtca taaacccttc 300
cctaaccatc acaattcata tttgcatttg caaagggaact ctctcttttc tttttcttct 360
ccaagagaga ctcaaactct ataagcttga ggtatgggtg ttgtaataca aggagatcat 420
nttcctcttc ctttgatg 438

<210> 4716

<211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4716

agctttgagc canaattctg acttaccata attcttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcgaaaag aatagaaggg aaatttccaa tcaaagaaaa ggaaagaagg 120
 aagatttcca atcaaaaaga tagcaaaaaa gaatagaagg aaaattcccc aatcaaagag 180
 tgggagaaag canaaagaaa agaaagataa ttcccaatca aagaatggga gaaagtaaaa 240
 aaggaagaag aagaaggaaa gatagctcct gatcaaggat cgaaggacaa cagaagaaat 300
 gtgcagaaag gtctttggac cggacaatat ctgaacaata cagaattgtc accaaatgaa 360
 anaaaagaag gaaagggaaa ccacgaccta aatgggtcttc ttcctttgat accaaccaaa 420
 atccc 425

<210> 4717
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4717

gagccccggg agtcgaagag aagtttattt tcatattcat caaagtctga anagagtatg 60
 atgaactaat gttacgtaat atggccacag ctgaagcttt ggaacgagaa accaagaagg 120
 cccgaaagga agaacacgac caaagcaaag ttttgagggg ctttataggg cagcaatagt 180
 gagctcaagc tccgaagagg tgaaaggaat catcacgggt caaaggcatg atcttgaagg 240
 acgagctaaa ggtttgcctt aggtcgaaaa gaaatttgtc ccaacagtta agcgagactg 300
 aagggaatat gtgggccatc atcgataagt gcaaagagaa gctaaatcta gcggcgactc 360
 acgagcaaag gctagaggat gagtatgcca agatatcagc agaaagggaa gccagggaaa 420
 gggtaattga ttcattgacc aagaggcaac aat 453

<210> 4718
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 4718

agcttagaca acaatatcta cattgtgaga aattaatgca cacgaatatt ttcgttttaa 60
gaagaagaaa tatacacttc agtcttctcc ttgaaaatta ctaacccttc ccttccaagg 120
attaactcgt ggaccctatt tacaaccacc a 151

<210> 4719

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4719

tanagataaa ctaagaataa tgactagaaa tcttatctta gttcttgata ananaggcta 60
tcaaatacaa actgattagc taggctaaga ataccgatag aatatctcat catatattct 120
gagaatatat tctatcaaat attaactgac tagcttggct aagaaaaccg atagaatatc 180
tcatcatata gtctgataat atattctatg aaacacagac tggattagta agctaacaat 240
actaataaga tatctaataca tatattttat cattaggtag gcttagaata cagatagaat 300
atcttatcat atattgtgat agtatatt 328

<210> 4720

<211> 76

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4720

agctntataa gcgcgggttc gagagacaaa ggtcatagcg ttcgcgatat gcgaagatga 60
tgttccgagt actttg 76

<210> 4721

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4721

ntaggatatg taannttata tttatagttc aagacaagca tattgaaaca ataactcaac 60
tactgtgacc actccaacat aactattgcc actgaacaag ttacttcatg tntagaattc 120

tgcattntat ataatcaaca tatgaaagat ggagaaaata ttgtaatttc atgacattaa 180
 ccccaacttgt ggtgattgat gtacgtggtg attgagttat ttattggatt cttgcttcca 240
 tttgggaccg tgttgctcat catcacaggt acaaagtgtt gttaccgatt aattttttta 300
 ttacttggtc actgccatta aagacaacta atatttgata tacaaatttt gttcatgatg 360
 agagaacctt agattcccgt ttgagactga atgcaatgat tcttgcagac agtttgcatt 420
 aatcaatgta ttcaatctt 439

<210> 4722
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 4722

agcttcctag ttatagagag ctaaactcta tggttggttct tcctttagg tacttgatgt 60
 aaatacatgt atatctatct aatgatgttt tatgtgttct ctgtgctatc agtacatcat 120
 ttcagtgtgt ttctaccttg atcacgtaga tgcattgcttt gttaggatca ttcaatgggtg 180
 gaaactgggtc tgattcttag aacttgatag gatagggcta gtttatcgta ttatcacgag 240
 ggatcgggggt acgataacct ag 262

<210> 4723
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4723

tcctcacttt gcagtttaat attgatcact tgttnttctt atttattnt gactttcaat 60
 ctagagggaa gctcaaaaac tccaacaca catttcattg tcaatatggt cttttcaaaa 120
 ttgttcccaa acaaaattgc atcatgcata ttatagatga gatgctttaa tttgataatc 180
 tccaacctta tagcccgaaa attttggtgact acactcttca tcattccacc aagaccttct 240
 ctagcaattg ggaaaagaag atgagagagg gaatctcctt gtcttaatcc tcaagagagt 300
 gtgaattttg ttgttgggtt gtcagattac aagaactaca actattgtag ttaagaggca 360
 ttcacaaatc caactccttc acttatattt gaaaaaccaa atctacccat catatagtcc 420

aagagactcc aattcatcat atagccctat taacaatatt cagctgttgg atg 473

<210> 4724
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 4724

atatatatat acttatatat atatatatat atatatatat acatatatat atatatatat 60
 atatatatat atatgttttag gcagaaagat accttgcata tgcattgtatg tagcacaaac 120
 aacttcacaa aatatatata tgtatgtata ggtagcaaga taccctgcat atgcatgtat 180
 atagcaaaaa tatctcacia aacatatata cgtatgttta tgtagcaaga tacctgggac 240
 acacatgtat actacaaaat acctcacaaa aatatacgta tcgttaggta gaaaaatacc 300
 tcactgtaca caacgagagc gagtctgac agaattctaa ccattgcctc ctaccgaact 360
 ctatctaaca taccctaacta caacggtcgc ctagctacaa cctcctccct ctaatacaca 420
 caccg 425

<210> 4725
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4725

tccttntagt gcgtcacgtn taanaccgag ctccgatggng ttgtagcct ttgatgtgac 60
 tcggcgggaa gtgatggttag aaatcgacat tcccattcag ataggcccc acacttgcaa 120
 tgtggtgttt caagtaatgg atataaatcc cgcctatagc tgcctcttgt gaagaccttg 180
 gattcatgcc ctgggaagtg gcccttcaac gcttcaccag aaattgaagt tcgcagtggg 240
 tagactctta gtgatagtgt cgggtgaaga ggatatgtta gtgagttgcc cctcctccgc 300
 accgtacata gaagcggcgg aagaatcatt ggaaacggct ctccaatcct ttaagggtggc 360
 gagctgcgcc tcggtggaac caagtcgcgc gctactttct ctctccaacg tggccataat 420

<210> 4726
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4726

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 gacaattata gttgctgttt gaatacctca cccactcaag tgtatcacac aattatggct 120
 tttctctaata gaaacactct tgcctttttac cactctaatt ccccttgagt tcttaggcaa 180
 ttcaagagat tatggccaca acaaagaaca attcaccaat atgtgtaagg gaaggctaga 240
 caaggaaaag gttaaccaag aaaaaggcta acaatgtttt taggcacaaa tgaaggaaac 300
 aaaattcaga atttatgaat tcaagtaaca atccttcatg caaccaatat attaccttaa 360
 agagtntttt tttntaagtt cttcaagcat gaaccattca g 401

<210> 4727
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4727

agcttgtcat aactttatct cgagcccagt gtttttaata taccatttat tgcnaaaaga 60
 actagnggat catgtgtgta atcttgatac taatttgctt ctattggaag aaaaagatat 120
 tgagttatac gttgtatcca aagttcatat ctagaaaata aaaatgaagt ataaaatggt 180
 aagcattttg tagtatgtgt tctttagggtg cttagtacat tgctggccgc catactnttc 240
 tgagctttca taattgacat tctatattta catcaatata ggaataaaca gatcttttaa 300
 caatggtgaa atcaacaagg aaattatgct tcagctttct aatgtgccaa aagctgtacc 360
 tatctgcaaa atttctgatg ttgactcttc tgagggtatgt atgactact 409

<210> 4728
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4728

ngtaaaacca attttctaga aagttagcta attccaatat taattagaat ttttgttcgt 60
 taatgtgcat aaaatttaca tgtaagattg acatagattt tatagaggtc aatctgtatt 120

ttgcggcctt taagaaaaaa tttcattatg aataaaaaat ttttaagattt taattnttta 180
 gcatcatgtc aaaattaaaa atcaaattta attagataaa ataaaatatt caatacatta 240
 gttaagtaaa aaaatagtaa gttaaggaaa aataaattaa tcttaaaatt taaaatatta 300
 taaaaataaa ttaagaaatt caatttcact cttacaataa ataattgatc ctgtagctag 360
 gtcaagtgtg aatttcctac ttgattnttt aaaaaaatat aaatttcaat gagattttaat 420
 ttatatatta tttctatatt caatacattt ggcattcgat ttcaacgtat aaa 473

<210> 4729
 <211> 216
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4729

ggcagtanac gctaacgaca gtaacattgc actcggtagt ccttctgagc tcccgaacat 60
 atcgagaggc tcgatattag aaccgaagct cgcaggtaat tctaacgact ttaacatttn 120
 actcggaagt ctgagcgagt cccgtagtat atcgtgacgc tcgaattttg aaaccgaagc 180
 tcgtaacata cgctaacgac agataacatt tcaactc 216

<210> 4730
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4730

agcttcttat ccaggcactc tcttgnggt ctagctcctc cttccatggc ttattcttta 60
 gtggatggcg cctcctctca cctcttctcc tttatcttcc actacacctc catggttgaa 120
 aatcaccatt gaaagacctc attgaagctc aaagatccat cctccataga agcttctcaa 180
 gcaagcttcc atcaattatt gcttaccttg atatgaccat tgtttcacag ctggaggcat 240
 tgccacgcat tgcattcttg tggagagaga aggaataana gtacaaacaa tgtttgcgtt 300
 caggtgtaat gaggaattca cacctacgta gttctttaag t 341

<210> 4731
 <211> 465
 <212> DNA

<213> Glycine max

<400> 4731

tcaggttggt caattgcttc agattgctgc acaaaatgta tattgtttgt gtggtggtcg 60
gcagaggagc ataaaccaca aactcttggtg acaagtacaa atttctgatt caaggtcagc 120
ggtgttacca agttaaccaa ggcattctagt ttaccttcaa gcttcttagt ttcagctgat 180
gaagatgaat tcgtggctac ttcattgcact cctctaataga ctatagcatc atttatggca 240
ctaaactgtt gggagttgga agccattcttc tcaattaaat ttctggcttc agcaggggtc 300
atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat gttactgagt 360
ccttcataaa aatattggag aagaagctgc tcagaaatct ggtggtgagg gcaactggca 420
catagtattt aaatctctcc catattcata taagctctct cactg 465

<210> 4732

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4732

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gcttcctttt ccttttcctt tacaatctng tccatgaata tgcatttggt ctaaagattc 120
tgcaacatca tctaaaatat cctttcttga agaaatagca ttagactcat caaaggaaac 180
atgaatagat tattcaatag tcatagttct tttattatat attctataag ctttactatg 240
caaggaataa ccaaggaaaa ttcttcatc tgacttagca tcaaattttc ctaagttttc 300
ttttccattg tttaatacaa agcatttgcc accaaacaca tgttgatgag aga 353

<210> 4733

<211> 482

<212> DNA

<213> Glycine max

<400> 4733

gaatactcaa gctttacgga tttggtcttc accgacgaat ggatcaaagt gttgttctga 60
atattgcaaa tctgatcatc ctgcattgat gaatactata attgaggcaa atgaaaagga 120
tgacaatgag ggatatacct ctgctatgac tgccattcct acacggccaa atttcctgtc 180

agcccaacaa tgtcattact cagtcaataa cagttgctct caccacaataa tacacaaagg 240
ccatcccaaa tcattccaaa agcctgcccg ctgcacatcc agtgccacaa caccaaccat 300
aaaggaatth tgtagcacia agcctgtagg attcaccoca cattctagtg tcatatgcca 360
acttgctctt atatctactt gataatgcaa tggaagccat aaccctgcc acggttcctc 420
aacctccatt cttcagagga tacgactcga acgcaacatg tgcatatcat ggaagagttc 480
tg 482

<210> 4734
<211> 269
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4734

gcatgcaagc ttaaagtatg ctcgagtcac tcattccctat gagatgttgt tgaagaaang 60
aggatcagaa ttgccattcc ttggattata tggtttagcc aagctcatgc ttggacagaa 120
aggctcatta tatcagggtg aagaaacgaa gattccgtat tgcaaaatta gagcaaaaga 180
ggaatccagt ctcatcactg caaaggctac tgccaaacat atttacgatt ggtgatgtac 240
tttgacttc caatttgacc ttgacaaag 269

<210> 4735
<211> 444
<212> DNA
<213> Glycine max
<400> 4735

ctctgcagat tggctcttoga cagtgaagga taatgttgat ctaaatatgc aaagttgatc 60
atcctacgag gacgactgag aaaactgtgg cagatcaaga cgggtgaggat gagggagaga 120
cctatgctgt tactgacatt cctgtacggt caagttgcct actctacca tcaactatth 180
tactcagcca attacaaact atgtacttac ccaccacca ggtatccaca aaggccagac 240
ctaaatctaa cacacagtct gtggaccgca ctttcaatga caaacaccac ctttagcaca 300
tatcatatac accaaccgag aagtgaatct ctgagcgaga aagcctgtac aattcaccoc 360
atttcactg tcctatgctg acttgattcc atatctactt gataattcca tggtagccat 420

gaccctagcc aaggttcac aacc

444

<210> 4736
<211> 119
<212> DNA
<213> Glycine max

<400> 4736

agcgtgtacg atgcatctct atagtactca ctggtgtgtc cacattgcga gtcgtgcatt 60

gttattctcg ttctgttact tattataccc actgttgacg agctcatgcc gtttgactt 119

<210> 4737
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4737

tgagatgagg aagtgttgaa gggtgaaact ttctttctta ttgttgacca cagagtggta 60

cctggagata tgtcgcggng gtcaggagac cttggggacg tcagggtgtgg tgctattgcc 120

caaaaccaag cttgaccaat cccgacccaa cccggtcata gtttgtcagt gagaacctgt 180

gatgtaccta agcaggcgat ctcttggc 208

<210> 4738
<211> 265
<212> DNA
<213> Glycine max

<400> 4738

atgtgtctag catcacgatt atcgtctccc ttcttgcaca tgttctgtac ttgctccta 60

tccagaacca tattccaata ggactgatac tgccaaacaa acgcaaccat taagtccttc 120

cacgtatgga ctcggaagg ttccaagtca gtgtaccagg taacagctac cccagttaga 180

ctttcttgga aggaatgcat caacaatccc tcctcttttg cgtatgctgc catcttccga 240

ccatacatct ttaaattggtt cttgg 265

<210> 4739
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 4739

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ccttgtagaa tggccagaca tgatacatgn cattgtttgt ttttttttaa gggaaaaggg 60
aagccccaca ttatgtccat gacacaaatg cataaatgat gatttggaat tcttatgcac 120
aactggatcat gcatgcacat atgtggacac tcaagtgtca aatttttatg gtcatgtgat 180
gctagggctc acgattcatt tcctctattc ttagtcaacc caatgttccc aaaatatgtt 240
cttttaccaa tgtgtgcatt catcctagac ctttttgag actcgtgaaa atttcacagc 300
attcacctt cacgtgtata cacatctttt taaaaactac gtatgatcag agatttattt 360
aaagaaaagc tggaagtaat ctcttttcaa aagcatgtta gatttctaga tagacaactc 420
atattctttt tctc 434
```

<210> 4740
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4740

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agcttgaacc ataaccggtg agagtgtgac cttaaactgc gagtgaatga ctagctttga 60
gtaatggtct tttcatcaat ctctgaaatc tagaatgaaa tgtatgaatg aggacatggt 120
gaaggccata attgtatata caagccaatt gaccaaagag cttaccttga attataattg 180
tatectttgc tccctttgtg agctaaatta ctttttcaa attgaacctt gaacttgaat 240
gagtacctcc agataccttg tttagattct aggagagcat atgggttcaag gcaaacttac 300
cccaaattcg gnggagtgga gctgagtggg atttaaagaa naaggtaaag catcaacaca 360
cacataacaa ataagttgtg ttaaaaaaaaa agcaataaaa gaaaa 405
```

<210> 4741
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4741

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ngcctcanag agatctagga aggataaagc ggttgaagga accatttccg ctcccgaata 60
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tgacagcctc cattntagga gcgctgagca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcatttctc cgggagcgac gcgtccagct cagggacgac gagtataccc actttcagga 180
 ggagatagtt cgccggcggtt gggcatcact ggttaccccc atggccaagt tcgaccacaga 240
 catagtcctc gaattttatg ctaatgcttg gcctacagag gagggcgtgc gagatatgcg 300
 atcctgggtg aggggtcagt ggatcccgtt cgatgcagat gctctcagcc agttcctggg 360
 atacccttta gtgctggagg agggccagga atgtgagtat ggccagagga ggaaccggtc 420
 cgatgggttc gatgaggagg ccatcaccca gttgctatgt atacc 465

<210> 4742
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4742

agcttgacag cgagaataat gagtacaaat atatgattta ttccttggaa cagcagtccc 60
 aactgaacaa tagtatggat atgcattctc cttgcacttt gngtatttagc ttacatctga 120
 tttagcttgt tcgaccctat aaagagcgca ttcattctgt caagaggcca ttgcgcccc 180
 ttatgccttg gcttaatggt ccccaacttt cagggaaagg ttttaattggt aatgctacgc 240
 tgagctttca atcttctgct tcaggaaatg ggcatatcaa tgggtctact ccttaacaca 300
 tcggtcaatt gcattgggtg atacatgagc atgtacaact tcttattcag gcattcttta 360
 tatcga 366

<210> 4743
 <211> 494
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4743

tatatcttga caccgatata actagctgcy gaacagccat gcaatagaag aagaggaccc 60
 ttttattcaa cataagcgag attccaatat tacctattga ccacaagagc ttacaacatt 120
 aacctgctcy aggggtccata ttgttacacc gactatatta agtgactctt ggaacacata 180
 tgagatccct aaccaattaa caaatgggcy gactttgggt tcttgataac attaaatgta 240

ataacatact ggtactacca aatacacaca aaggttgtat gtctgtactc ggacaacaga 300
 atatagttat tcctgcgaca ctagacatgg acaacattgg aatatgttga tactgagact 360
 cgtgcacaga ggcgccacca taggtctcta actctccagg tggcacgcta acttgatatga 420
 gttgatgaac cacttggact gcttgagttg actcatgagt atagtgttct ttcattagac 480
 tgtgtgctaa ctcn 494

<210> 4744
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4744

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 gctttaattc tgcataatcct ttggaaattg acttatagtt gaactaactg cactactgct 120
 ataatagctc ataattggct ttaaaactagt ggaaaatata acagaacatt ggacaacatc 180
 aacacacaaa ataacatgaa cccaaaaaaa tgaattttcc cattccacct caggaatgca 240
 taacatatga caatgttggg aataaaatgt cacaaagaca cattagcaaa cctagataat 300
 tgttcgggtca attcca 316

<210> 4745
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4745

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 taaagcaaaa gacgtaactc ttcaaaaggt atttgactct ttcacattgg cttaagttgt 120
 tctaaaagtt ataactctcc taaacggctt tcttgaccag acatgaagag tctataataa 180
 caatgctttg ctttgcattc caataatctt gaacacttat tcatacaatc ctttaccagc 240
 cttgaatctc tgtgaactac ttctttttct ttgacaaaa gttttcagag cttctggatt 300
 ccaaacctcg aaacttggct atcatctttt attctttctc ctttgcaaaa gaattgccag 360
 gactaccgct gaatcttttg tgctctcttc tcctcttcac agaacaaga ctaacgctga 420

<210> 4746
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4746

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 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc aaaagggtgaa gcttgccgcc acggagtttt ccgactatgc 300
 tcttgtgtgg tggaagtgat tatgcaagtt gaagtggacg tttccattgg gaaatacaat 360
 gataagggac ttt 373

<210> 4747
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4747

cggaagctct cgagaaaatc gaatnntcat atcttttcac acggatgtcc gattcggnga 60
 cataactgat ctagacgctc gaaattgaac aacggaagct ctcgacaaat tcgaatggtc 120
 ataacttttc acacggatgt tcggttctgg gacataaacac atctagacgc tcgaaatgaa 180
 ccaccaaagc tctagagaaa ttcgaatggt cataacttat tacacgaata gtcgattggg 240
 aaaataatat atcgagatgc taaaaattaa caaccgaagc tctagagaaa ttccaatggg 300
 cataactctt cacacagatg tccgattcgg ggatagaata tggtgagac 349

<210> 4748
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 4748

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cgactggtct ctctcttccc ttcgcaactg gagtgtcact attgctaccc catagagctc 120
 cgcgaaattt gatacggcca tactgctcct tgagagccct tttggtctct tgagcaaggc 180
 ctggtgcgtt agtggcattc tcttcccgtc acccggcaca ctctttccga acgtgtgtag 240
 cggccaactt gaacttctga ttgtcacgat atgcctttcc taactcgctt ttgagagcta 300
 ggacttcttc gtgctctgtc ggggctttaa aactctctgt gctgacgact ttaacttggc 360
 gagcaatcta agcccagata tgaa 384

<210> 4749
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4749

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 atggcgccgc ctcttacctt ttctcctttg ccttgcgctg catctccatg gtggaaaaac 120
 accattaaag gacctcattg aagctcaaag atccagtctc catacaagct ccacaagcaa 180
 gcttccatca agtggatatca gagcacaaga gcttcaagta ggtgctcctt aaacctacat 240
 taattttttt ttctttacct tctcttccat tgctgattct tcattattct ccatgtcatc 300
 tcctcactgg tctggatcta aatgctgtta acatgattct ctacagctcc caccgagtaa 360
 acttgctata gaaactaatt ngatattcta tggatcacat gtcttgctct tgctcttgaa 420
 ccatgaattg tgatgacgtt aggatccttt gag 453

<210> 4750
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4750

agcttcagag ccaggcctat gactgtcaat tttattctgt cactaaaata aagaaccccc 60
 attcttcagt atcctcggcc acaacggtag taagagatcc aactacaatt taggctaaca 120
 gtagttctca ttctaaagc agtggaaacac tttttcattt ataagagtcc aggatgataa 180
 cctgagatca cttaattatt aaataattaa aatataggaa tttagaaata tatacatata 240

gagataaggc gttgttgttg ttgttgata catatagaga tacaatagaa aatcacataa 300
aagagtatgt gattgcaaaa caaaaaaat atcattcatt ataccacana agatacacia 360
gttaatatgc aacgataaat tattattctt ctttcttgt cactattaaa ttcaattttc 420
tctaacataa acggaaccct 440

<210> 4751
<211> 470
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4751

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ttcattatcc tccagtgcga acaagtactt ataacattaa cctgtttgtt ggtccatatt 120
gtaacaccga ctaattaatt gactcttga acctatatca catcccgctc aaatcaacia 180
attggcttaa tttgggttct tcataataat aataataata aaagattgga aagaaaaaag 240
aaaaagaaag gttgaagggc tcttcacgga caacagaaga gagttaatcc tgcgacacga 300
gacatggaca atagtggaaat aggttgatag tgtgactcgt gcaaagtggg gcaaccatag 360
ttatcaaact ctcaagttaa ctactaact tttatgagtt tatgagttca cttgttctct 420
ttgagttgac tcttgagtaa attctttttt tagtagactc tgggtaaact 470

<210> 4752
<211> 507
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4752

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aagngaagag gctataagta ttgactatta tgacgctata acagacacag aagaccgcac 120
gataaattct cctccattgg atttagccat gctacgaata taggangatg ctgtggctat 180
actaaatcgc actgcgtgtt aagactcatc attctcgctt taatgggaaa gaaagaacct 240
ccagactact tggagtgcga gaagaaataa tagcatgtgc tgtcatgcaa caacctatga 300
cgaggaccaa atggtgaatc ttgccgccac ggagctctcc gacatatgct ttcgtgtggg 360

ggaagtgatt atgctacttc gaccgtacct ttccattggg aacctcatgc tcagcgactt 420
 ctgaagttct ctcaccgtcc tcacaatctc ctcccgaacct aacttgtcaa ctatcttcct 480
 cccctcccc atgataccct ctgcccc 507

<210> 4753
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4753

gcgagtgttt agcctagtta actttttttt tatccaattc gattaagaat gagagatccc 60
 aaagagaaaa cgttcgattg attgttcgct ntattttact aanagacgtt gatgttttat 120
 tattatatta ctactttacc tctttttgat ttccaacgtg gttacggtac gaccgaacgg 180
 gcggaattca ttgtaaccga agataatgga taatacaact caaacgatcg gtggaaattt 240
 attttatttt tagggtaagc gagatatgac ttacataaaa tggcttaagc acgtcaaaag 300
 ggggtataaa aagtaaataa aacgagaatg aaaatacacg atacacaatg tggaccacca 360
 tgggtacata gaatgaatcg ataagcttgg ttcgaggtag ttactcgttg aagatcgaag 420
 aacgatgaag aacg 434

<210> 4754
 <211> 276
 <212> DNA
 <213> Glycine max
 <400> 4754

gtcattccta attgctctac aaccgcatat tctctattga gctggcgaag aagaatgcgg 60
 catttacctg tggtgaaaaa caagagcaag cctctgcttt gctcaaagat aagcgtacta 120
 aggctcctcg tctagctctc gatgcctctg gagggggagt cgcagctgtt ttgatacacg 180
 cgggcaccct atcgcttatt atcgcgaaat acctcatagc gagacagagc gttatgccta 240
 aataatagcc cttcaaactt aagaacatta ccctgt 276

<210> 4755
 <211> 155
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4755

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cactcactat acgggtgggt caaaactctg catcggatag aaccctacgc agataggccg 120
tctcgagacc tcgacagcca actctgacac tgctc 155

<210> 4756
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4756

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cgtgaggata ctcggacacc gnaaacggcg tataatccac taccatatac acaaacatga 180
gcgctcatta atagaggcgg aggcgactat ttccttataa cagtcgctgg cgacagactg 240
tgaataatcc gttatcaaag caccattac aggaattgag cttcgtacct aaataatacg 300
cgtcgttgca ggtggtgttg tctctaacag tgacacacat atacttggca aaagcgacta 360
gatgcgtact caaaggcagt tagcgttacc aaaaactgca catgtgcaca tgttgggatg 420
tctaaaacca tacatacaca actctctgaa gaatctcgct atctcacata aggtgcacat 480
tcttgcaactt ctaacgttcc g 501

<210> 4757
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4757

ttagtctcga gaacctgcan nacgcgacac atngaaactc agctggagga tatggcgacc 60
catacatggg tattattgtg ttcggccagg acggaaccaa gttgtcacat aaccatgcgc 120
gctaaacca tcgtgcgcta ttgaccacat gcacatgaac tcacgtacat gcacgaaccc 180
catatactac tatctcgtaa cagcggggcg ccatcaattc gttcgagctt gcgacacatg 240

caagcacaac aactttcaaa acggacaagc tataatagtc gagcgcaaca tagagacgca 300
 gaanacgtct gctaacatat gaaccaaaca cggagctntt ctgatttaga gaccagagta 360
 acctattgct tcgatgcagt tcgttaaccg ttggatcgac tccataatgt tactagatgg 420
 ctagagtgc taactccaca ttgcgatcgt agggatctac tcgcaaacaat cctgaaataa 480
 ttcattggcta caatttccg 499

<210> 4758
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4758

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 agcttataag agattatatg gttattactt tttacgcgaa gnacgantgt ggtgcattat 120
 aaatcgagac gctctaaccg gccactgga cggactatta aaattcanat gtgtactaac 180
 ttctacgtcg gaggaccgat tcaagcccat caattaacgc gacccccaaa atctatcact 240
 ggaagctctt gagctattcc aatgggtcata actttaaact ctgatgtcca tttcacggac 300
 acaataattc gagacgggtg aaattgtact accggtgctc tcacgaacat tgaatgcact 360
 aaacttttcc caacgaggtc cagggtcaagc gcataactca tcgtgaccct cggaattgat 420
 caaccaagc ttatcagaac acctctggcg ctgactattc actcgcatct cccagccgcg 480
 ccgtcacata tgcagatctt ccacctcc 508

<210> 4759
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4759

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 aatttgcattc tgcacttggt gcaagagtct gtaatctatg ttttctgcag atcaccatac 120
 agatctatgt ccttctttgc agcaatctgg agtcaatgag caacctgaag cttatgctgc 180
 aaacattcat aatagacccc ctcagcagca aaaccaacaa aataattatg atctttcaag 240

caatagatac aatccaggtt ggaggaatca tccaaatctg agatgggcaa gccctccaca 300
acaacaacaa cagcctgtcc ctctttcca gaatgttgcc ggnccaagca agccatatgt 360
tcctcctcca atgtagcaac aacagcaaca gtcacaataa aaacaacaag c 411

<210> 4760
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4760

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taatagactt actgagggaa ctagttctat ttttttaatt gttgtgtggt gaattttagg 120
tactttaagt ttgttcaagc gtttactagg ttcagaaata actgtttttt ggtatgtata 180
aatatttact tgtatttagg tcacatgaat gttttcttat taattattta gtaagtatat 240
attgtatgat tttgattaaa tgttacagca gaggtttcag agtttangaa gataactntg 300
ttctattttt ttttttacia gtgttcactt ctgaaattca actgttaatt cactttaaa 360
atngatcaat ttgtgttaca tattgtggct gcgcttggtt gttagtggag ttaaaaattt 420
gttcttcata agataatgat gaatattcat gttgtaaata tc 462

<210> 4761
<211> 543
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4761

atgatccctt gacnntctgc gcacntgta gagacganac tcagaggcac tgcaagctct 60
atcacgagta atnggatggt agttgctccc tactcatttt tgaanatgag atggcacgct 120
atcgctatgc gcttgagca acagccaaga gattatctgg cagagccgca gacatgcacg 180
atcactcaca ttcgaggacc actgtggagc tctgcagacc gataccagga gcctacctta 240
gagccatgaa gctcatacga acggtacatg aacatgtaca taatgcgca atatccaacg 300
ctaacgaaca tagcaccatg aagactaacg caactgtgac actgccatgc cagaggaaca 360
agcatccact ctacagcaga tgatctattc taaggctcac atcacaata aaagtgaaca 420

ggcgagaaca cctacttgga ctgccaacaa cattaccccg atgataccca gacattcaca 480
gaacacaacg cgatcccacc gcagacgcac gcactagcac gtgacatacg cgtctgtcac 540
cct 543

<210> 4762
<211> 158
<212> DNA
<213> Glycine max

<400> 4762

acgatccaaa cgataggata cacaagaaac ggacccgatg tagtgatgcc atcctacccc 60
ccacgggcat tggatcgaac actccaatac gaccgggcct actatgctcg ataaagccct 120
acgcctctca tgcgccttag ggtacatgtc tgagccca 158

<210> 4763
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4763

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aaacaagaca accccagaag caatttaaca agacagcact attaagacag tttttttgtc 120
acaatgatga gaaagtcaca aggaacaaac aacccttcc ttttcaacaa ccaagcacia 180
atttgatgac tntttgcagt atattaccat cataccctcc ctaatatctg taaaccaa 240
catccaccaa gtgacgtggt tgatttagtt tattgagaaa tataataatg cattgcccac 300
tgcatctgca tgaatcaatt gacgcttaag ttgtttaagg ctaacaagaa atatc 355

<210> 4764
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4764

tgcttctata gtatttccgc ctgccacctg acgcatgggt cttatttaac agatgttgng 60
ntngnatgga taaccacttg nggtatttnc gcctgccacc tgacgcatgg gtcgggaata 120

gtaaattattg tctttgtaca gataatcaat tgggtatatt cgcttgtcac ctgatgcata 180
 ggtcatgac agcaaatgtt gtgagaccaa aagagtctca gccggaagat gctgacatct 240
 tcagaaaggg tgcagacaac cacattggtc tctgctgtc aacgggctcg cttgcctctt 300
 gatgacgaaa ggtgcgata accataaagt atgtctgcat gctaccgaac ccttgagtca 360
 cgatatcaaa ggtgagactt tctcgcggtc tcggtcggaa gacactgaca tctct 415

<210> 4765
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4765

agtcacctgc ggcattgcaag cttataagaa cgaaattgcc taaatcattt tcaaattatgc 60
 atgtgaatta ggaagcatca acaagaatca agccaaggct attgtgcaag caatggggca 120
 aaacacacca aaagattatg atgatggatt gctcgaattc tcacaaagggt aaacttatca 180
 ctttcaaatt gagatttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt 240
 cacaaaatgt caagagactt ttattttcag aacaattacc cattacttga acatatacta 300
 taattcanag acaaactatgc aaatttaaca caacaaaact aacaaaatta aactagaacc 360
 caacaaaact aacaaaatta aactaattta acacaactaa caaaaccaa accaaagaac 420
 acactcnccc cccatactta aacaatacat tgcctc 457

<210> 4766
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4766

gagatggat ctggtcttag aaaataattt gctaagagcc aattcgggtgc gattggccaa 60
 cctgaggaat ggtgtagtct tgctgtgtac tacttgcat gtggccccct gcagctccca 120
 ttcatatacc tagggatgcc tatagggtgtt aaccctagaa ggaagggtgt gtgggagcct 180
 ataatcagaa aatttgaagc caaattgaac aatggaacc acagaagcat ctctatggct 240
 ggcagaatta ccttaataca tgctgtcttg acagctntgc ccttgtnnta tatgtctttn 300

ttcagggccc cttcagcagt catcaagagg ctactacta tccaaagaca atttctttgn 360
 ggtggaaact tggaaggaaa aaagatagct tggatctcat ggcagcaagt gtgtgctcct 420
 agagaaa 427

<210> 4767
 <211> 231
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4767

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 tgaccacaca gtggtacctg gagatatgtc gnggggggtca agagaccttg gggacgtcaa 120
 gtgggggtgct attggccaaa accaagcttg accaatcccg accaaccgg gcataatcgg 180
 tcacggagaa cctgtgatgt acctaaccag gcgagcttct ggcagtcaac a 231

<210> 4768
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 4768

cgattgtcac gtgctcatgc attatttgtt atccgtgggt atacgagaca tcttgccaaa 60
 caaagacagg ttagcaataa ctgcctgtg ctttatcttc catgctatat gtagcataga 120
 cattgatcca gtcatgtttg atgaaatgga aaatgaggcc gcaattatac tgtgccagtt 180
 ggagatgtat tttccccctg ctttcttaga catcatgatt cacttgattg cgcatctggt 240
 cagagaaatc aaatgctgtg gtcctgttta tctacgggtg atgtaccggg ttgagcgata 300
 catgaagatc ttaaaaagggt atacacagaa tctatatcgt tcacaagcat ttatcgttga 360
 gaggcacatt gcagaagaag ccattgaatt ctgtctgact acttacagaa tgctaaacct 420
 gttggacttc ttgagtctct gcatgatgac 450

<210> 4769
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 4769

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aaactgacca tccccgtgctg cccacctgca actgagctca cgtactccca cgtagcccat 120
atcctcgatt ctatcaacac cgggtcccaa tcaatactcc caagcttcca cagcatccaa 180
gcaaaacaac attettacag cacaagctat cgcacccaag caagactgag cataggaaga 240
aaactgtgct caacacatca accaaaatca cagggtcttct cacttaatga ccacaggaac 300
cattccttcg atccaat 317

<210> 4770
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4770

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gatcatccta ctacgacgac tgagaacaat ggggctaata aagaggggtga ggatgaggga 120
gaaacccatg ctgtgactgc cattcctgta ccgccaaagt tcccaccaac ccaacaatgt 180
cattactcaa cccttctcct taccacccgc ccagttatcc acaaagggtca tccctaaatc 240
gacaacaaaa cccacctacc acacaaccaa tgctaaacac cacctttggc acaaaccaaa 300
acaccaacca agaaatgata tttgcagcga aaagcctgta ggattcacc caaattccgg 360
tgtcatatgc taacttgctc ccatacttac ttgataacgc aatggtagcc ataaccnctg 420
ctagggtccc tcacaccccc atttttctga tgatatgact cgaacgcaac a 471

<210> 4771
<211> 461
<212> DNA
<213> Glycine max

<400> 4771

ccaagcttag cggacagggc cgactaaccg agttcatcca aaaaaccaga aaatcaacat 60
aaattgatga actcgcttag cgcacaggcg cgcttagcga gcacatcgaa atttcagaa 120
aacttggggc ttttcagccc cctaccatag gcctctgtta ggccctcaaaa cctaatacaa 180
acaacacaaa agcatgtaca ttatgtgcga aaataaaccc ctaacaacat agcatctaaa 240

gactaaccta actgtaacat tgcaaagcac aaaatcaaag ctttaaacta gctacagtag 300
tcttctatcc taagggttcaa agcaaaaata aaagtgaaga gttgagaaca cttacttgga 360
ttgcagagaa gattaagcac gaggaagcac agagaagcag agaatacaat ggaagcacia 420
tgcatgatgag tgcaagagta agtgagaaat gtgtatgtaa t 461

<210> 4772
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4772

tgctctacat tacattgatg tttgtattta ttggaggatg ttgtatgcca ttnttgtttt 60
aagggtagca tttcttggtg aaactaactt tccaaatggt tgcatctgca ggaaacggcc 120
ccgaggaagt gatgcaatcc tccccccaa gggcattgga tagaactct caataagatt 180
gggccaaaaa tgcaagagaa ggccctaggg ttctcatgag ccttagggta gatttctgag 240
cccatgggcc aagggtgggt ccaattatct ttgtacatat tagactagga tgtcattata 300
tttggtcctt gtatttaggg atccatattg taggtagggt accctagaaa tataggattn 360
ttcagccctt gtatttttgg gcacctagac tagttnttgt attaggggta gttntgtaat 420
ttcacatgca ctaagtggat atttgat 447

<210> 4773
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4773

ntttganncc cttggacntc gcagcacctg agatcctatc tagacgacct gcangcttgc 60
aagctctaaa cagactttca aaattaacat tttgtgcgac taaggaagca taatctggta 120
cttgaaccga gcggtcgtc aaacgatgat gcctcattaa ctatatttac atgtataggg 180
actgttttac aacgcacttt ggaaagatta ttgcgctcgg gtatgcaagg ctcaaatatg 240
atttttgtaa ctggaagaga gatattctta cgtccataaa gtgcagctac ctgtcatcac 300
cattcattaa cccaattgct ggccaatgtc tatcttaaca tattcttcta gcacattatt 360

cataacaggt ctgaacattg taaactcatg accgccacta ctaacaatag agctctattg 420
 tcattcattn gcacaactct taactaacca tgcgatccga cgcgtactat cacctctttt 480
 gtactaatgg cggctcatgt taaagatcta caccgcacg 518

<210> 4774
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4774

tgtactatng gtcatatgca tatgatacaa tcaaagcctt ctcttcacca accaggattc 60
 cgaatgcttg cagtgc aaac accgctgata tcaacgctcc gcgctcttg ttgctggcat 120
 atttatacat gattgtggct gaaagagggt agtctccacc gatggcaaac gctagacaga 180
 atctgaagaa gcatagagag gccatgacac cctgtggagc tgaccacacag gagagttgct 240
 gggcaaggga ccacactacc atgagaatga gcgttagtgc ccatactcta tatctcccca 300
 tttaggcacc aagccaacca aataataatg gtccgtatta tgcgcc 346

<210> 4775
 <211> 174
 <212> DNA
 <213> Glycine max
 <400> 4775

agcttcaccg gatgatgccg atctatcatt ttctattoga catcatacaa ctgatattca 60
 gggaatgaat agaataatca ctgcgcgggtg tcggtcgta tatggaccag aatgatattc 120
 gtcagccgac attgcgcaat ttgttttaca aacgctagcg ataatggatt tttt 174

<210> 4776
 <211> 251
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4776

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 ngcgctccaa gagtaacgtg ccaactgtgaa aactaactct tccaatgttt gcctccgcag 120

gaacggttcc tatgaatctg gactcctata ggtgcaggac cgacaaggcg ggcgaaggaa 180
ctacctctcg cccggagtac tacagtcacc gctttaagag cgttgtacac cagcagcgct 240
ttgaagccat c 251

<210> 4777
<211> 155
<212> DNA
<213> Glycine max

<400> 4777

gtatcaaagc ttatcttata cagatttttag tccatccgga gtttatttta tcgagaattt 60
atgtgcggct agattttatt gcggccggaa tttattttat gccatcctat cctattgtgc 120
ccagatttta ttttatttcg attatgggcc tggac 155

<210> 4778
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4778

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tgaacggctc gaatgctatc aaaggcttca tcagataaga attccatata aataaactta 120
cggtcgatta tggaacgagc tgagaaaaga tttgcgtacc gattctacta ttcttctgaa 180
gaaaacaatg gggaagatga caatgagggt ggaattggtg ctgtggatgc gctagcggct 240
ccggaacgat gagctcttga agccgaagcg gacgcggaag aaccctttcg tttctttgac 300
gattctgcca ttcgaaggag accctgcaga gtccaatcgg cgagatcaat ataaaaatga 360
actagatgaa gatggcaatt tacgggaggt gattcgatga agaaatgagt gagat 415

<210> 4779
<211> 230
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4779

atgcaagctt cacacaagtt gggtgttggt ggtatttgtt tgattacatg ataacctctc 60

atttgtgttt agcttgtatt attggttttg aagaacaccc ttgctacaa gtcaaacaat 120
tatacttggg gatagggcca ttagggtttt tcttcaccct aaacacctat ttacaaccaa 180
ttggatccct acatggaggc agttcagtaa gaganaatga accatttttc 230

<210> 4780
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4780

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gtggaccaa tcagcctgag atgcaagggt taagcgctaa gcgccagaga ctctcggctt 120
agcgcattgac caaagatgag cttagcaaaa ggactgtgtt tcagaagaag aaaaattcta 180
agttattttt cagtcctttt cttaagaaat tgaaactctt atatctatca tttaaaaaca 240
agctgatata cccaatgta atgattatga agcaagttcc acatgatata ctgcataaaa 300
tgcagagata acagaaatta aaactgggtt gcctcccagg aagtgttct ttaacgtcat 360
tagtttgaca cgtttacatc catgggtgat caaatgcaca gagctatgtg ctcttgtaa 420
ttcttcacca tgggtacagtt tcaacctct 449

<210> 4781
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4781

caagcttgta ccaaaaacaa aaaattntnc taatttaaata tacatgacaa tgagatcgct 60
atataagata ctacaaagat cacattttac aaaagattca tatttaaata cccatttttg 120
gcgttttttt tttcaagggt gtggcattgc cgagagacaa tggaggggtga ccattttctca 180
tgtttggagc tcaaagaacc cataaacatt attcccgttc tccggttctg tcaaataaca 240
gctaaaaaca aagccagaaa atccaaaaaa aataggaaag tgaccttttt tcatgttcaa 300
gtacccatgt ttgggaattt tctccgtagg tgtggcagtg ccgtgagaca atggagggcg 360
gccattttctc at 372

<210> 4782
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 4782

catgtagaag agtgataact cttagtaaaa cctaacacca ttctgaacac tgctaaacct 60
 ttctgaacagt tacatcttta ggtctattca taaacaagca ctggtactcg attaccaaatt 120
 tacagtgact gattacacac tgctttgaaa cgaaaggatg tgactcttca cct 173

<210> 4783
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 4783

agctcgagag gaggttccag catgacccgg attagttgta tatctgtatt acggctcagc 60
 agcgagtagc tgacttgtct ggctatcatt tcaaagaagg gtttgacacc atactaatct 120
 tcttacttta cagactttga tggattatct tttacttgct tgattatttg acattaaatc 180
 taaagggaaa ataatatgct tgttgacctt gacaatatac gcataccagg acatggataa 240
 atgcaaagct tttagttttac cttgttaaaa cttgttttgt ttgaaacaga caaggatatg 300
 aataccagtt tattgagaag attgttgagg aggtctctag ggagattaat ctttgtcctt 360
 tacatgttgc ggattaccca gttggactaa agtcacgagt gttacatgta aggagagctt 420
 tcgatgctgg atctgatcat ggcgccacat gat 453

<210> 4784
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4784

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 gncaccgggc tgcagcgtat totocattcc acaatctgca acagatacaa acacaaaatc 120
 acattttact cttaaaaccc taaaccctaa acacacactg ttaacattgg caaataaggt 180
 aaacgataaa cgcaattagg tcaaaaagag ctgcgattag ataagaaacc tccgcatatg 240

tagctgactg gctcaagctg aggatccatc gctggttcca gcgaggtgta aaggaagaaa 300
 gttctaagct ntaaccttta gctntctgct caacgaagaa aatgtaaagt ggctcagaat 360
 cagaggctct aaaacgaagg attgtgcttc atcttcagct cttatgggcc caaattcgca 420
 acttacatgt ccaaaaccga gaagcctctc tattctgtat ttctttttac 470

<210> 4785
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4785

agcttggtng cattinggtcc cacttatgaa atgactatat ttttaataata agctaattag 60
 agttattaga tagatatatt cggccgtttg tgtagatggg aaggatgaga ttctgaataa 120
 agcttccttc tgggcttaca aaggaaggga ttcattgatta ttgatcatca tcatcaatat 180
 tattatttct ttttgaagac aaatctagaa gccaaatttt tcttccagtg gaccctaccc 240
 tctttcttct ccaaaatggt gctcacatag gaggaatttg gttggagggc tatacgaatg 300
 ggggacaaat cacttgcaat ttggtgatca atgatcagtg atcacaacg caaaaacaaa 360
 ttacaaccgc ttatatggtt tataaaatca tgcattgcat tcttcttttt acagtctatc 420
 atgtgtgctc ttcattcata cactaactga gtacatacta etc 463

<210> 4786
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 4786

gtaaatgctg tgaaacttat tcatatccgt tttcttgga aattgtgcat tgaacttctt 60
 ggcgtggatc ttccaactgc atatcaacat gccttcactt acatccggca actggctaca 120
 attttaaggg aggcacttaa tacaaagact aagggtgctg ttatttgtcc agtacatggt 180
 attttcttat taggcactgt aagaagtgcc ttgaacttat agttatccta acaaactggt 240
 tatatatgga tattaattac tggcccttag ttcttacaag tttggcatgt ttttctatat 300
 ttgtctgtta aactggttct ttaaccttgc atgtaaaacc ttcaaagttc tggtatttgt 360

ctgttacagt tactaggcac tcttgattat tgttgaaaaa ttagaggcac tcataaacct 420
 ttcattgtgt tgttgatagg gattgagaa 449

<210> 4787
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4787

agcttgcagg attatggngt acccatcaca attggtacta tgtggcggtc gggcgaaggn 60
 gcaagacaac tcttcacatn cacaaatcac acataaagcc accatcccca gctggccacc 120
 ttaactgagc tcacatactt tcacggacn cttaatctcg gtcctctcaa tgccgggtcc 180
 ccatcaattc ttccaagctt tcaaaacatn caagtaattc aacatccaaa catcatgaac 240
 tatcaaagcc aagaaaacaa ggcagaggca aaaaactctg cccaaaacac aaaccaatat 300
 cacagctttt cactctcaa taccacagta tcattctctt cgttccaatt cgtaaccgt 360
 tggatcgact caaaactttt actggaagtc tctagtacat aagtctacat ttgaccgtt 420
 gggatctgcy attaaatgtn cagaacccaa tatgtactac cc 462

<210> 4788
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4788

atgctttaat cagtgttttc tctaactcat cttttcttta aatcaacctc ccggtgtcaa 60
 aaatcacttg atccatgaca tgcaactctaa aatactttgt cttatgttta aggtgtttca 120
 tggaaatata ttaaactgta cttcatcatc ttgtaccttg acagtgagtg ttccatcatc 180
 cacatcaatc acaacttttag aaatcttgat gaaagatcta ctaagaatca attgaacttc 240
 attgccttca tccatatcca tcaactgaaa gttgactgga aagacagatt tgtcaacttt 300
 tatcaatata tctacaacaa tgccataagg aagctgtgtt gttctgtcag ctaactgcaa 360
 acccatcctt gntgggtctga tttcaacttc tcctatctgc ttgatcatg 409

<210> 4789

<211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4789

agcttncatc anaatctacc ttattatata acttagagat cttgnttcac ctgttcttgc 60
 gattccacct tttctcatat catttttgcac gtttttgctt tctgtcttga atggnataga 120
 ggtgaggggtc gattccttga ggatcctaac gaggggttga taatcgattn tgaccgagaa 180
 gtaagtcaaa caataaacga agaagaggaa gaggacgtcc tttcaccaaa gttggagagg 240
 ttgatcgctc aggaagaaca cgaaatgaag cctcaccaag aggaaaccga actgataaac 300
 ttagagaccg gagagggaaa gaaagaagtg aaagtaggaa ccagtatgat cgcacctatc 360
 cgccaagggtt tgataaccct tctt 384

<210> 4790
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 4790

aatgaaagta gaaagtgttg aatgaattaa ttgatctaac ttgcaaaaca aagccttgct 60
 tttatagact cttcgtgtct ggtcaagaag atcattttaga agagttatta ctttttagaaa 120
 aacttataac caattcgaaa aagtccaaaa ccttttgaag agttacatct tttgatttat 180
 tcagaaacag ccaactggtag tcgattacca aattagtgtg attgattaca caaagctttt 240
 aagtgaaagg atgcgactct tcacctttga atttgaattg caacattcaa gggcactgat 300
 aatcgattac caaaacattg taatcgatta cagctttttg aaaataattg gaacttt 357

<210> 4791
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4791

agcttgactn tggtttagac atgattgatg catgatttgg gacttgtagg aattgatttg 60
 ggcaagaatg gataaggcga agtgtgattt tcgaaatctg cacttatgca gaattttgct 120

gtcaaaatag gtgcagcagg attttggtc tgtgcagaaa aatgcttggtg tggttggctg 180
tggaaagagc agtacagaat gagttctgga tgtctgctag taaatcccaa cggtcacaat 240

<210> 4792
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4792

ntgaaggtgc gtagcccacc attntccata gtagaatact gttaatgtgt ctactatcat 60
tgtcatcggt ttttcgtcat tgaggtgcca cttgagctgc caggttctcc acctttgggc 120
gtattctttg aaagatcggt gccccctttt ttgcacatat tntgtagttg catcctatcc 180
gaagccatta taccgacact gcctaacgaa ggcaaccatt aggtcctccc aggaatggac 240
tcgggaaggt tccaagttag tgtaccaggt aacaactacc ccagtaagac tttcttgga 300
ggaatgtatc aacaattcct catcttttgc gtatgcccc atcttctgac aatacatctt 360
tagatggttc ttggggcaag taatcccctt gtacttgtca aagtccagca ccttgaactt 420
gggaggggtg atgatatt 438

<210> 4793
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4793

agctnttgac ggactatacc aagctctagg ttctttgacg gagaaagatc tatatatagg 60
cttgctaagg gtagagagag gaagactaga gatttggtac aagtaaagag tgttaaggat 120
gaagaaggca aagtcttagt gcaggaaaga gatatcaagg aaaggtggaa ggcgtatttc 180
cacaacttat ttaatgatgg atatggatat gactctagcc agctacaccc accagaatag 240
gaccggaact ataagcacta tcg 263

<210> 4794
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4794

tgttgctcat atattgagtg tgtgattaat tgnttggtga tatgggtttg atggaaccaa 60
catttatatt agttgagcat ggttgctggt ccttgtttgt aggggctggt gtagcctatg 120
tagataatth cgggcttgta gataatagct gggagcttat agataatggt aaagataaaa 180
atttgcttat agataaaagg tagaagataa ttgcaccttg tagataatgt gtaggctcat 240
agataattaa atacctgtca atagataaga tattcaaata catttgaata ttagcaggct 300
agagataacc tgtatgttgg ggagtccggc tgctaagggc cacgcatctg cactcctggt 360
gcaaggctag cgtataggag tgacacgtgt ctctgactgt catgtangtc ctagacagta 420
cat 423

<210> 4795
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4795

ggattctttt attattgcaa ccgcgagggc gcaacanaca cagacacgcc cacacgctca 60
gtcgcacagg tgcacacact cactcacact cacttataca catacacacg actgcataca 120
cagacatttg cacacataaa cacattcact cacttatttc cggacacaca catagaaaca 180
catattctca ctgagagaca cactcacact ctctctcgtg aatacggacg cacacactag 240
atagaaactc gaccgcaggc tgtcagatag gcgcacacac aactcgcac ttctgtgatt 300
gaaagacaca cgctcagaaa ctcatcacac actcatagag actcataccc acatacagac 360
acatgctcgc agactcacat tcacacgacc acatagagat cctctcacgc ctacacatag 420
agacacacac acactctctc g 441

<210> 4796
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4796

ctcagcttat aaggcacctg ttctagctct ttctgactct tctatatctt ttgatctaga 60

atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtgggc accctattgc 120
 ttatttttagt gaaaaaattc atagttcccc cctcaactac cccacctatg ataaagagcg 180
 ttatgcctta ataagagccc tccaaacttg ggaacattac cttgtttcca aggaatttgc 240
 cattcatagt gatcatcaat cacttaagta cattagaggg caaaacaagc taaacaaaag 300
 gcatgcagaa tgggtagagt acctatagca attttcatat gttatcaaat accaaaaggg 360
 aacaacaaat gtggtagctg atgccctatc tacgagacac acattgtntt gctccctang 420
 agctcaaatt ttaggatttg atcatatcan ggacttggat gcttttagatg aaca 474

<210> 4797
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4797

agcttgtaat cgattacaca tatactgtaa tttattacca gaagagagtt tcagaaanaca 60
 ttctcaacag tcacatcttt ttgtgtgatt cttgaatggc tatcataggc ctatatatat 120
 gtgacttgag acacgaattt gataagagtt tttcaaaaca aaaaggtctt atcctcttat 180
 aaagagaaat cgttttatcc tcttacaaat tccttggcca aattacttgt gattcaataa 240
 ggaattattt gagtgtcac attgttcaat ctatctcttt caagagagat ttcttcttct 300
 cttcttcttc attntgaana gggattaaga gaccgagggc c 341

<210> 4798
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4798

tctacaataa anatocatat ccttatgcnt ttataagtaa cattcaaagg taaactataa 60
 catgttttta tttatagttt aattcaatgt ccaacgcggt gttataaaac aagtgtctat 120
 tttttttttg tgaaaaccaa caccatgta ttgtatactc ttacacttcc gtattgacat 180
 aactaactta acataaatga tttatattct gttagtgaac gtccactcga ttgacttgca 240
 catgatatcc atcttgaggt tgattctctc gctagaacat tctattattt gaatttttcc 300

tcttgatgta tggattgact tgcacatgat aacctctgga tttcaagtta tgtgctctta 360
cagacaaaaa aaaaaaagaa ttatctacaa gagcaacaat agtacaagta gtggaagtag 420
agaacgtgcc tatagcaaaa aacactatac c 451

<210> 4799
<211> 293
<212> DNA
<213> Glycine max

<400> 4799

gcttagagaa aactttcttg agaagcaaga tcttattaac tctcacccat ctaagaacta 60
agctcacctg catgagaagg tcacttgaga agctagagct tagctacaca cagcgatcta 120
aaagctagac tgacctcttc gataaatgac atgataatac agaagaagtc cctactacaa 180
agactactca aaacggcctg aaaacagggc taaaacgcta tactaataga atgaccatag 240
tacgaggccc gaaagaggga caaacctatt ctaatattta caaagaagag tgg 293

<210> 4800
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4800

agcttgaggc tcaactatgn atgttcataa cttattactg ncgcncaaga catacaagtg 60
agcttgtaaa aaatcttctg gacttggagt gatcacatgc aggctctctg aacccttgcc 120
acccaatctg tcatcatgcc gagactcaag aagaccaaca ggtttagcct tctaatatat 180
tctgaacaaa attcaacggc ttcttatgca atgcactctt caacaataga tgcttctaga 240
cgatatag 248

<210> 4801
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4801

ngagttntga ttggcagaag aagaacagat gattatccag ttattggata agncatagga 60

aaatattgct gattatcagc ataactgaca ttgctctatg cacatntgat catcatgctg 120
 gagctttctc atctattggc tttgtcatct aacctattat taatatttat tttgcggaga 180
 ttatccactt atatatcttc taacttctaa atagtcatga gggattctac atatttgtaa 240
 acgtatgttg ccatgaacgt tttcacaacg tcaaacaaat ctctcttgct ctgaggtaat 300
 aganatcgcc attcttctct ccctcaactc taagctttca ctttcttctt ac 352

<210> 4802
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4802

catgcaagct tctcgggtgc catttcctgc gaaggcatat antttttaaa gttagttcta 60
 ccagtngac actactctta aaacaaaaat ggcatacaac ctcccccat aaatacaaac 120
 atcaatgtaa aattagagca agcttatgcg catatttcct tacgaacgtt cacttgacac 180
 agacattcta ttaactaaga aaaaatgcac ccatatacaa tcaaggcagc ttcgttatct 240
 agattattta catgtacttc caagggtgat tngttactta catcacacac atctccttgg 300
 ctaaatttac atacatgcat actcaaagca ttttggggta ccaaaaattg cacatgtgca 360
 catcttggtg tttctaatac ctatacaaac ttcatgttga atcttgacta tctacacaat 420
 aagggtgctac atttcatgct ctttttaaaag ttttgctacc taaagtcgca 470

<210> 4803
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4803

ntttggactg agcagcgaac ttcgataata agcttcgagg tgtgtagccc accttattta 60
 tagtgaata ctgttattgt gtctactatc attgncgtcg gtgtgtcatc attgaggtgc 120
 cacgtttgag ctgccaggta tctcacacct attgggggtg attctctcga aagatactgt 180
 gcgcccccg tattgcccac gttatgcagc tgcacacct acgaagacat catactgaca 240
 ctgcctaacg aatgccacca ctatgtcctt ccattaatgt actctggaag agtccagcta 300

gcgtaccatg caacgagatc ccaggaagac attctcggaa tgaatggatc aagtatcccg 360
 tatattgtgc gcatgctccc atcttccgat aatacatcat tagatgggtc ttgggcaagt 420
 agtcccctcg acgtacgcaa gacgctaccg gaacttcgtc gtggatgata tcggctctag 480
 aacaactctt tgggttgaaa cg 502

<210> 4804
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 4804

tagtttacac gaacaaacaa catgaacaaa tagattaaca tggggaatga ttctagaaca 60
 ataaccgtat catgattatt tattttgtta gagatgggat acattacttg tcagtataca 120
 attaactagt attgcattgg aagattaaaa tacaaattat cttgagatat attttttttt 180
 ctgacacagt tgtttttttt atactacatt attaatgtcg aatatccata gactttgtca 240
 aagattagct cttattagaa tatttgaata gccaaagtttt ctcagttaca ggactcaaac 300
 ctcacatctt atttaagaag atcgaattta gcattacgga gttattaatt cttaaacaac 360
 tattcatatt 370

<210> 4805
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 4805

ggctcaatct ttacatatga gtatgctaac ctatgaaatc ttaatgtttc cttattacga 60
 taaaccaaag agaaggaata cgggtatcat atattcgctc caaaaaaatg tcaaaagata 120
 ggaaacttac cacattttga tgagtgggat catcttctac gatagtttca tatgaagatt 180
 gaatcgaaac aaagggacaa atctcaaata tggattgtgc atctgctacg gagtataact 240
 ccatatatag ccagggtgtgc tgaacagaac agtcccatcc agtcccact gtctacatga 300
 atccacttca ttgcgaacca ttactagaca ttaatcacia gtcaccaac attgagattg 360
 ctagtgatac ataggatgaa gcacggaaaa cactcagaag ttcttacact aatccccgaa 420
 ctagaatctc gctttcttta cgaactccac aacatctctt ct 462

<210> 4806
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 4806

agctggcatc attctgtaca tagccaaaag agattaatct tctctaagca aaaacgggaa 60
 gttattaagt tgtcttcaaa atgatagaca agagtaagac atactttgag tacaagacaa 120
 gggcaccttt acttttcata ttttaagacgt gtttgagtaa atagcttagt atttgttgaa 180
 taagttctta tcacatgaaa cttatgtata agtttacagt gaagggtatt 230

<210> 4807
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 4807

aaaagcttga gcttgacctt cttaataaac aaatcaagtc gagtcgaatc ttagataggt 60
 cgagtcata gtccttaaca aacaactcaa ttcatttcca tctctaattg ggagagggca 120
 acctagtaga gattctctcc ctcccttatt ttttttttag aagtaaaatt cactatacta 180
 aaatattact tatcatatac aacaatcatg atttttatgt aaattataat atttctctat 240
 tgaaaattaa tgattaattc ctgaaacatt gagattactc aagaaattaa ttcctctccc 300
 atatcta 307

<210> 4808
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4808

agcttatgca gcatatatat actatatacc ttctctgcgc agcagcagac tcatacgctg 60
 gctgacaatt atgacgtttc cagcagccga tacaaccctg gatggatgaa tgcccctaac 120
 ctcatatgtg acaggacctc acaacaacca cagtagtctg gtgcttctt acaaaaagct 180
 ggtgggcca gctgaccata cattcatcca ccaatccaac aacaacgaac cccccggaca 240
 cagccaacag ttgaggcgcc tccacaagct ttctctgaag aactagtgag gcaaacgact 300

atgcacaaca tgcagtttta gcaagagacc agagcctcca tttagagctt aaccgatcag 360
atgggacaat tagc 374

<210> 4809
<211> 64
<212> DNA
<213> Glycine max

<400> 4809

tgtgctggac ctggatcacg cgtctaactt ctctttcaat tctatgagag ggacgcgcga 60
ctgg 64

<210> 4810
<211> 388
<212> DNA
<213> Glycine max

<400> 4810

agcttaatca tgaatgcccc gacttgtcta tttatttccg ccaacatact ttaggtattt 60
gcactaccac aacatctgag ggactcgctg tctgacctct atccatggac tcacccttca 120
ggaagacttt cggaccaggg atctcgatgt ccatggatcc actaccaact tcattaatac 180
ttgtttgagc tggtcaccaa gtcaaaccat tggttatgat actaactgat gtgaaactga 240
gggacgagtc catgcatgga ggggaaaaca atgcgtcccc tgtatcacia gtctacttga 300
cgagtgagtc catgcacgac aggctgagcg acgtgtctcg tagccatgaa tcagtggaga 360
gtggcgatca aggcactatg acatgttg 388

<210> 4811
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4811

ngatgtcatt canaacacac tatgtagacc taaatgatta ttttacatgc attgggttatg 60
taattgtatt cattatgcga tataatttgt tgtaaccggt tactaaccaa ttaatattat 120
caagtactcg tttggttaag caaggaaatt gttgggtcaa caaaaatcat ttatgcgtgc 180

aacatacatc attgtcataa ttgacaacac ataatgacat gcatgctgtc tacagtttga 240
 gtgcgacaac acattggctg acttcagtac acattntgaa actagcagtc gttcgacaac 300
 acattggctg acttgactac acattagtga caacacattg gctgacttga ctacacattt 360
 acgcgtgtct attnttttgt aaacaaaatt aaacaaaggc tcggtcacaa ccatctatat 420
 atatggcaga ctaggctact aaatcacaca tta 453

<210> 4812
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4812

ctgaggcatg caagcttgcc tgtccgatgc agcagtattg atgttccgag ttatgttggg 60
 gaacggttac gaaccggaa tgggtttagg caaagacaac ggcggcataa ctagcttgat 120
 aaatgccaaa ggaaatcgtg ggaagtatgg tttatgctat aaaccactc aggagatat 180
 aaagagaagc atcgcgaggaa gaaagagtgg tggtaaagc tcgcagttga gacaagatag 240
 tgaaggaagt ccgccctgcc acataagtag aagctttata agcgcgggtc tgggagacga 300
 aggtcaagtg gtcgcgatat acgaagatga tggtccgagt acattggatt tagtacgacc 360
 atgccctcct gatttccagc taggaaactg gctagtggag gaacgccctg gcatttacgc 420
 aacgagcata atgtaaacct ttacgggttt aanagctcta tagtt 465

<210> 4813
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4813

acactatgaa actcagcttc taaggaagtt ntcttaagaa agcttctcaa ggaagtttcc 60
 ttataaaagc ttctcaagga agantttcta agaaagcttc tcaaggaagc tacctagtct 120
 ataaatagaa gcatgtgtaa cacttgttgt aactttgatg aatgaaagtc ttatgagata 180
 cacttcaaag ttccacttct ttcctctttt tattccttca atttcgggct ccccccttct 240
 ctcttntctt ttcttcatta aagcatcctc ttcaagcttc ttatccaagg aaattcttgg 300

tggtgaagct ccttcttcct tggcttattc cctagtggtat ggggccgtcc ctctcctctt 360
ctcctttgcc ttcgctgca tctccat 387

<210> 4814
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4814

atcttagagc acctgcagct gcagcttggg agggagggat gttcattggt ctttgcctga 60
attntggaag caacgggtgc aactccgtga cccgaaacca catgacccaa gtactcaact 120
tgtggttggg caaatgacca tttagagaac ttgagcacga attggttgtg aaggaggggc 180
tcgaatgctt gctcaagatg aatgagatgc tcaggcaatg tacgactata aattaaaatg 240
tcgtcaaaga aaacgatgat gaatcgccgg aggtaaggcc ggaaaatgtc attcatggtg 300
gcttgaacg acgaatgtgc gttacacaaa ccanacggca tcactttgaa ttcatagtgg 360
ccgtggtgag tgcaaaacgc agtcttggcc acatcggatt catgcatnct tatctgataa 420
tat 423

<210> 4815
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4815

ntagtggccc ttaatttgaa gcaatatttg acattcctat tatgtattcc ctgacattnc 60
ttttgccttg atagtcatg gaaatcaagt tctgaaggag agtacttggt tccgccttat 120
cgctntttgc aaagcacttt ttttaatttca gtaagaaatt cttaggcact agttatatca 180
tctaaaacaa tgctcctaaa gatcttagga atgcgacgct taatgatcat aagactcatg 240
cgatttgagt gatcccaatt ctcatgaagt ttcctctggt aagagattgt ggaattcgta 300
ggagaagggg gtttctcaat ccttaatgca aggtctagat ccatgcagcc aagaacaatt 360
tgaatgttct atttccagtc cttataattt gcaccattaa gaactggaac cgaattcaaa 420
ttagcagata tagaagcaac aacggttaag atcaaaataa t 461

<210> 4816
 <211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4816

atagcgagcct gagacgtcga gacacctaga atactccagc tctgagccat aatcctaact 60
 caccatatac ctagaccctt tgtgatattg tcaatcctta ccctcggacg tcttaataaa 120
 cgaatgaata tgtccctctt cttaaataag tgaaggcata tgtccattca cagacaaagc 180
 aattcatata catctcgaat gtttcagtc caacgctaaa agagaagaaa tgactttcct 240
 aattattgag tgggagaaaag cctcactata ctaaagaatt tttcctatct aagaatggga 300
 gacagttcta cgcacactga agaagacgat gatgagtga tgaatagctcc tgatcaagga 360
 tcgaaagata aatagaagaa atgtgcagaa atgtctttgg accggacaat atctgtacaa 420
 tacagaattg tcaccaaagc aacaaaatag agggaaagga aaccaccacc tgacagtggg 480
 cttcttcctt tgnaccaac caaaatcctg tgcgttggtc t 521

<210> 4817
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4817

gctntgatgt aacatttgga gtggttaatg aaacaacgag atgatgcgct ccatgagagg 60
 ttggatcaaa tggagaataa agaccatatg aattgctcaa gagcttccat tgtttaattn 120
 cgagcgtcta gatataaat gcgcctcaat cggacctncg agttaaagc tatgaccatt 180
 tgatatgctc acgagctttc attgttcaat ttcgagcgtc acgatatagt atgcacctga 240
 atcggacctg cgagtgacaa cttatgacca tttgaatcgc tcaagagctt ccattgccca 300
 atcttgacgc gcacgatata ttatgcacct gaatcggacc tgcgagtga aacttatgac 360
 cattcgaatt gctcaaga 378

<210> 4818
 <211> 372
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4818

ctcactcgga ggccccgattc aggcgcataa tatatcgaga ctctcgaaan tgaacaacgg 60
aagctatcga gaaattcaaa tggtaatac ttcgaactcg gaggtcctat taagggtgcat 120
aatatatcta gacgctcaaa attttacaat ggaagctcta tggctataca aatgggtcata 180
actttttcact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240
atggaagctc ttgagcaatt canatgggtca taacttgtca ctgggaggta cgactcagct 300
gcataatata tctgtgacgct cgaaattgaa aatggaagct cttgagcaat gcaaattggtc 360
ataacttgtc ac 372

<210> 4819

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4819

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aagctatgga aggaaaggaa ttattgtatt gttctctaca acnaggcatc ttaggatact 120
tgtgcttaaa ggaaccatct gcacttggag tgtataggta agggaaacca gtgggtcactg 180
actatcttat cagacacatt ggagctacct acccataccg attgatcttt gatcataggc 240
cttctgaaac gaacgtctat cctctgggtg tctctatcta taataacagg gaatcagaaa 300
cttttgagat gctttgtttc actccaaggg aactctaaca catcctattg ttgatgcact 360
atgaaaagat agttctttct tgtggcagaa ccgagattga aatagaattt catgtgtcag 420
acatcaactt agaggatcct gaatatagtc caaggttcta gaatggagaa aatgactatg 480
acttgactga tatggatttg tgactct 507

<210> 4820

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4820

agccttggaa ggatgcttca ctgtgttgaa tattttttaga gagaganaga gagagggggg 60
aagcatgaaa ttgaacgaag aacaagggag agaagttgaa ttgtgagttg cgtctcacia 120
gactctcatt catcaaagtt acaacatgtg ttacacatgc ttctatttat agactaggta 180
gcttccttga gaagctctct tgagaaaact tccttgagaa acttctttga gaaaacttcc 240
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctcttgaga 300
agcttccttg agaaaattcc tcaagaagct agagcttaac tacacacacc tctttaatag 360
ctaagctcac ctcttgaga tgagaagcta gagcttacct tcacaccct at 412

<210> 4821
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4821

ccttcaaact aagcttggca ataaatactc ctacatttat ttcttcatgc tttgtatgmn 60
ggcctcgacc tttgtcacgg gaagccggaa ggtccatata accttcttaa ttgtacacat 120
ggggcactac gcccccaaat gcgcaagtaa gaagagataa ttctccgggc tctcgtgtcc 180
gtaaaatgca ttcatatcat gcatcgata agcatctctt cataacatca taatggacat 240
atcctgcatt tggctgttat catattccag cctcacattt tgcattgagc atggcatcat 300
catgcatatg cgttcaacia actttttgat ctgcgaaatc gcataccata tgttttcatg 360
tttgctcatc cttgcgttnt cctctacaca acaaacacia aaaaggggga agcgtgaaac 420
ttcacactac attc 434

<210> 4822
<211> 407
<212> DNA
<213> Glycine max

<400> 4822

tgcttcgtgg ccaaactctg tatttgttta atcctatttg tcttcatccc agatttagca 60
aatgcaatca ctatatatat atatatatat gagagttgct aatgcactta catttaattt 120
aaaatttagt ataaatgcat taacaactaa catcataaat ttttgataaa aaaaccaata 180

atctcttcac ttataataag aatatatcgg taattttaata tcaatttttt taaaacaatt 240
 aaaagagtca taatagtgtc cataaggcac ttctttcttc tttttccttt ctctcacat 300
 ggtaataatc atggttcata attcacactc taaaaattta agtcttctcc gagctaaccc 360
 acttcatcca tatgaaaaaa tcttaaacctc aaagtgaata gcaactg 407

<210> 4823
 <211> 1034
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4823

cgccgcgcgc gnnnnnaatg aatagccgta agtacnctng cnngacaccg tgagaaatac 60
 ttncaaanct ctctgaggcc aatgttccaa aaccgtgaca atatactttt agtacctaca 120
 agaangngct cttattatga agttccccga caancntaat gacaagaact ncggccgcac 180
 atatgtaaca caccataaag catcccctgc ctacatctca ctaatgggca nataaaacttt 240
 gtgtataaca aacgtatcag acctgagtcc tcgggcaaact actatatatg agacgtctcg 300
 ggatagtga caaaacacta tatatttagc agccaatctt tcaaaacacg acactttaca 360
 gaactgcggg cgaaatgatc caacaaccat atcgacgtta aaattatgaa ttaaacta 420
 ccccnaccg ataaatagga aattgctttg gcgaggttga cgaacacacg tttcaatagt 480
 gaacagacc cagttattgg tttctgcctt gaaccataaa attctcatcg tccaaaagaa 540
 aaccacgcc cccaatatg acttccatgt caccaccgca atcttgagtt cttttcaaag 600
 ccttttatat atcacaata acccgcaaat ggggacaaac gccnccgaac caaaaaagta 660
 atccctgggc gctgcatatt cacgtattga atcgcgaaac atttctggta aaatttttga 720
 gaaggggtgc cccaaaaatg gcgcctataa ctttgtaaag ggaaggtgaa acttttacta 780
 aacgaggcca ctgtgttcta aaggagacg caataatcga tntgggtccc ttcgccatac 840
 gcccaaataa tttaaaacgg tgggtgtttc tgggctctct gtctaacac aaaaaagac 900
 ggtttctctt ccacacaagt gcttgcntga tacaccaaat ctcttttctc tttagacttt 960
 tgcggctctt cccgccatct ccttaccctg ttttctagca aattcgactg cgaaaatagg 1020
 gcgtcccttc ttcc 1034

<210> 4824
 <211> 549
 <212> DNA
 <213> Glycine max

<400> 4824

tgcttgtggg gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
 attttccacc atggagatgc aacggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcat tgaataagaa 180
 gcttggagat gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240
 cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcaacaagac 300
 tctcattcat ccaagttata acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
 agaagctaga gcttagctac acacacccat ctaaaaacta agctcacctc cttgagaagc 480
 ttccttgaga agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt 540
 tgacaaata 549

<210> 4825
 <211> 678
 <212> DNA
 <213> Glycine max

<400> 4825

tccaagttt ttaagttctt cctcaaaact gtcctaagca aagttcccaa agtcctatta 60
 acaacttccg tttgcccacg ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120
 cccaacttgc tccacaaagt cctccaaaaa tggcttagga acttagagtc cctatcacta 180
 acaatgctcc ttggcaaacc atggagtctc acaatctcct tgaaaaacaa atcagccaca 240
 tgggaagcat catcaatttt tttacatgga ataaaatgag ccattttaga aaacctatca 300
 acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagcccca aacaaaatcc 360
 atggataaat caatccaagg atactccgga attggcaatg gagtatacaa tacatgaggc 420
 tttaccttag actttgcctt tttacataga atgcaatgtt cacaaaattt ctgcacatcc 480
 tttttcatat gaggccaata aaaatgttct tgtaatgttt ctagagtctt ttggacccca 540
 aaatgcccc a tttaacctcc ttcattgtgt tcacaaacaa gcaaatttct agtagaacat 600

taggcacaca caattgtttt cttgaaaaga aagcttcatg tctaaaaaac atttctgaaa 660
aatttcacaa ttttaaaa 678

<210> 4826
<211> 552
<212> DNA
<213> Glycine max

<400> 4826

atatgttata tttaatcatt ttaatatata atactatata tggagaaaaa tacttatttt 60
aatacataaa tattaaatta ataacattaa atgcaacctt aatatttttg tttaaatctc 120
gtttaaaatt ttaaatttaa ttacttaaaa aatatgtatt aaaaatattt tttttacata 180
tatagttaaa tataaattaa aatatttttt tggttaccat gcaatttata taaaatattc 240
acctgcttta actttaccga aaccttaaag tttttatttt ttaaattccg aaacaaatta 300
tatatattag aagtaagtat cagagatacc ttaagaacaa aatataagcc caacattcag 360
caactcgggt aatcaatatt aatatctgat caaaagatat aagattaatt tgataaataa 420
aaattaaaat ttaagagtga aaagagaaat tgtgagttta aatttctgtc attaatattt 480
ctaacaaaac taataaaata actcatttac tgaaaaaaga acacctcatc cgattaaata 540
taaactaacc ca 552

<210> 4827
<211> 461
<212> DNA
<213> Glycine max

<400> 4827

aaactttcta cttttattcg ttgaccacag agcggtagct ggagatatgt ctcggggggtc 60
aagaaacctt ggggacgtca ggtgggggtac tattgcccaa aaccaagctt gaccaatccc 120
gaccaaaccc gggcgtagtc agtccttgag aacctgtgac gtacctaaac aagtgaagctc 180
ctggcagtc accgattaaa gaacaaagac caciaagcat ggaggcttgt gtggtggctg 240
gccagctatg gatcttgagt gatattctgga atatggcctt tggtaatcga ttaccaaggg 300
tgggtaatcg attacaaggc ttaaaaatga agacaggaag ttaagatggc ctctggtaat 360
cgattaccaa ggatgtgtaa tcgattacca ggcctagaaa tgggatcatg aacgcgagac 420

agcttctggt gatccactac cactgctgtg tgatcgatta c

461

<210> 4828

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4828

tgtactaact ttaatcttat aaaaaaagt aagatttgta gcaacttaat cctatgtatc 60

tttggccagt agtcccagat taaaaccccc tccttcataa tggcaaatat ttggtagaca 120

actatagact tccccggcca cccaaattga cgcaagtttt gtccatcaat tttatttaca 180

ccatcaaaac tagactttta agacagtggg agatatcaaa acatatgagt taaatatgat 240

taacaaacct accgataata gtttttgttt ggcggctgag gaacaacgtc agaaagtgaa 300

ataccccaact tgttggcttc tgccttgaac catgaaatct catcctccag agaagccacg 360

cccccaata tgacttccat gtcaccacgg caatctgatt ccttccaagc ttttatcagc 420

acactagccg canatgggac aaacgcccga acgaacaagt aatc 464

<210> 4829

<211> 596

<212> DNA

<213> Glycine max

<400> 4829

tgcaatgaaa gatattgtgt atgtaagagt ctgggtgtcaa tctagacaca caaaccaagg 60

ccataattca aaataggtaa gatagaaatg atgatagtca ttggcacaaa cattgacttc 120

tgcaactgct actaagcttg caatcaaaga tattgtatat atagtaatta actttccatt 180

cagcaacaca aatttgtttt atttgtacgc tttaaatttg tagattgcct attcaatttg 240

aaatgtcaaa tttctatctt acatctttta tttggacaat atgtaacaaa agatgcaaca 300

aagaagttta ctaaacctta tattagagat ggacatcagt tctttatata ttgcttgtct 360

ggcgccaccac aaattatctt ttgatttctt ttgtccaaag attagacttg ttttatatag 420

ttctcgtttg ctcaagttaa aatcggtatt atacttgcgt aagccatcaa tgaacttaaa 480

aatgacaatt gaaatacaac acatgaattt aggcaagcag tgatagctga aaaaatggag 540

tatgtgagaa tgaatgcact tatatctaga gggatttttt actgatacag atgata 596

<210> 4830
<211> 515
<212> DNA
<213> Glycine max

<400> 4830

tgagatgagg aagtgttgaa gggtgaaaact tcctgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa aacaagacca 240
caaagcaagg aggcttgtgg tggctggcca gctgtgaaac ttgattgata tgtgagatat 300
ggctctctgg aatcgattac caagggtggg taatcgatta caaggcttaa aaatgaagac 360
agggggctaa gatgggtctct ggtaatcgat taccagggga tgtaatcgat taccaggctt 420
gaaaacggag tcaggaagct aaggagcct ctggtaatcg attaccagcc tgtgtaatcg 480
attacacaga gggatgggtc acttgtaatc gatta 515

<210> 4831
<211> 420
<212> DNA
<213> Glycine max

<400> 4831

tgcaagcaaa ctggatgcgt tgggtcaactt ggtaaccag ctggccttga atcagaaatc 60
tttacctgtc gcaagggttt gtggtttgtg ctctctgct gaccaccata cagaccttgc 120
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatatcta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgaccttgc 240
cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcatggtt ccagccctca 300
gcaactacaa caccagcctg ctcttctctt tcaaaatatt gttggcgcaa ccaaacata 360
cattctcca ccaatccaac aacataacca cccataaac agccaacagt tgaggccctt 420

<210> 4832
<211> 247
<212> DNA

<213> Glycine max

<400> 4832

ttgtccatca attttattta caccatcaaa actagacttt aaagacagtg ggagatatca 60
aaacatatga gttaaattatt attaacaaac ctaccgataa tagttttttgt ttggcggctg 120
atgaacaacg tcagaaaggg aaatacccca cttgttggct tctgccttga acatgaaatc 180
tcatectcaa agaagccagc cccccaatat gacttcatgt aacaccggaa tctgatttcc 240
tttcaag 247

<210> 4833

<211> 1127

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4833

ccctgctacg cgcggncacc aanacacgta gtatgcgacg gacttactan gcatctcgcc 60
cntgagngac atcctccttt tcctccgcn gtctacactt ctctctgaca gtcattctgt 120
actctccant cccaacntta ttactactac cccatanatc gccccctcga cancnncnnc 180
tttggaaaac ccgctaggag cntttgngca taagcactcg cggacaanta ctgcagaaaac 240
aactnntaga gacgttccgt actatagcat gggacanaat gctctcggcc aacgggctgg 300
anaacacngc ttaacatggg ctgtctctct atttggttcc tactccagca tgcagatcgt 360
gtcaccctc ggctaataat gataggtccg gcagtggcgc ggacaaccgg aactacagcc 420
ctcgagcggg actccatcat aagcagtgcg tgtggactca gtgtgacacc acacgtagca 480
ccggctctgc aaacacatat actccaccct cggctccgg cgacatcacc gcaagatcca 540
ccagactaag cctgtgtatg caaactaagg ccggcggaac accctggctt ttcaaccgat 600
tgaacgaaaa aatggacaac ggcgccctga aggcgtcgtg gcgtgcttgc ccccgtaaaa 660
ctatatgtac acgcgagata ttgccctctg aaaacaatta ccaactgggtg cgaatcgatt 720
accaaggcct aaaaatcaac acacggggcc taaaacgaac ctggagattc aacaccacag 780
agatgcataa aaaaccaggc ttgaaaaacg aaacaagaaa ccaagggagc ctctgggaat 840
ccattaccac cctgggtaat ttaataacaa aaacaaaggg aaccctcac caaataacca 900
ccttgtggta tccaaacact gccggggcac cccacatcga actcctaggc gaacaccaac 960

acgaaaaacc ctgaaaccat tgcaaaggcg gaccacaata cgctccact caaccccata 1020
 tatctccaat atcctcctcc tagcctccta aacccaactg acactcattt tataactctc 1080
 gccgaggcta caaccgcaca ctttcaaaag gaaatccacc ccccccg 1127

<210> 4834
 <211> 1013
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4834

gaagaacgaa gataagngtg aaatagagag aaagaataat anntgtannn cggggaaaaac 60
 atacgaagga gtnatagggt ntaatacaaa tacnncnncn nncnnncnaa nancaacaag 120
 gggtnnnaat gatggntgat ggnacnntgc nnaannnnngg nggaanagaa naaaaaanna 180
 gagggnaag gaaaaanaa angaaaaaga aagagggaaa atttggtgat ttatttttagg 240
 gganaanaga gaagaggaaa agtgtgatta taatatagaa atatttntta tatgtaaaaa 300
 atttgggatg gtagagaaaa aaaaaagggt ttttaaaagt aaaaatagga aaaataaaaa 360
 ttaaaaggga aattgagagg ggtgtaaaaa taaaagaaaa gactaaataa tgggggttaa 420
 aagaatagac tgaataaaag ggaaataaaa aaaaagatct gaaatttaaa aaaaaaagat 480
 ggtgtaaaaa agaaagaata gtggaaatgg aaaaaaagga ataatagaat attaaaaata 540
 aaataaaagg aaaaaagggt ggggagtaga agggaaaaaa agaatagtgt atgaaaaaaa 600
 ttgggaaaaa aggaagaagg gaagaaaaaa ganaaatgta ggggaaaaaa gaaaaaaata 660
 tattaaga tatgaaagag atggaaagggt aatagaaaaa agtatgggaa ataagaggat 720
 ggaggagaa agaagaagggt tgaaaaatta aaagaaaaat ggggtagaaa aggggaaaga 780
 ggaaaaaag gagaaaagggt gtaatttaag gataaaagaa aaaaaggaaa gaattgaaaa 840
 gaaaaaggaa ttattgaaag agggatgtaa atttaaaaaa agtagaaaaa ggaaaaaaa 900
 gaggcgagga aggaaaagaa gaaaagaata gaatgtaagg aaatggtaaa aaaagtaaga 960
 agaaaagaaa gaaaaggagg aaaaagggtta agagaaaaaa gaagaaaagg gan 1013

<210> 4835
 <211> 541
 <212> DNA

<213> Glycine max

<400> 4835

atatcattct ctctaaatgg atgctattaa ttacactctt ggttggtaat tgggataaac 60
tgtcacttta attgctcaac ttttaataaa tgttaaattt acttgcttca atttataatt 120
ttataaaagt ttttaattga tctataatat ttaaaaaaaa atattattta tttaaatcat 180
tgatgtcacc taaaatataa taaaacaata aagtaaataa tatttttttt attaaactac 240
gggttaaaat aaaaaagagg gcgttacttg agacatccaa caattttgtt ggggcaccag 300
caacattggt gaaagggcta aaatgtcctt cattattttg ttataaaagg ttaaagtgc 360
ttgtccatac gagtcattat tcatttttct ctgcaccgc tttcttcttc ttttaccttg 420
gttcttcgtc ttcctctctt ttccggcact cctttgtcat cttcgtcttt tctccagtgc 480
tgcttgatct tcctctttcc tccatatctt ctcttgtgct actgcattgt tcgggtaatt 540
g 541

<210> 4836

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4836

tctcatggct atgagaggct aaaccccat tgttgggagc ttggcatgcc aactcttggt 60
attcgtttag cctatttcat acatttctga tcttaatgca atttattatt tttatctttg 120
caaagaaatt tgggagaaaa gaataaataa attaggctct tcatgcggga aatcaaatat 180
aaagtgtctt agtagatgtg ggtggaaaca aagatttcat tagatagaaa aaaaatcatt 240
aacattgcat cacaagtagt tttggcatgc taggctccaa cataatcaca ttctgaattc 300
atctttcggc atttaaatta ttgctcattt ttcttgttat ttcttccttt tccttttatc 360
cccaattttc acacttacaa ttcccttatct cttctacttc ttctaattgc ttaataattg 420
tgtttgcac actttaagta caatcaaagt ctctgtggaa tcgactctcg aacttncgag 480
tcttttacta tttaaaacga attggtacac ttgccanaga gttaatatat gtgtgatcaa 540
tcccttcggg nggcatcctt tatgtattct attttgaata cata 584

<210> 4837
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4837

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tcaagtcocat gcttgtctga tttttccctt acatttgcta taaagcaacc accttcaaat 60
tcatgagaca gtttggcaaa gaaagcagta gcaagggcag tcttgcctat gccacctatg 120
cccaatattc caagggttct aacttcattt gacccaattt ttagtgatga ttcaatctgt 180
tcataattgt cctcaattcc aaccagtcct tccagtttgt ttgggtatct tggagtcagt 240
ttttgcaaaa catccccaac aatgttctta aggaattcag attcaatcgt accatatgaa 300
aaggggaaaa aatgaaataa atgatgtatt gtaagtctaa caaattcaaa agaaaaagaa 360
aatagaagta cacaaatgat tgattatata taatctagaa acaatatggt attgtagtag 420
ataaaacaaa gggaaaaaag gactangaaa ggaaaatcca atgtcttaga gcaaataatc 480
tatgtctctt tttctactca acgaaatgca ttgcanacta catgaaagtt gtatactaca 540
aaaaaaaaaa aaa 553
```

<210> 4838
 <211> 520
 <212> DNA
 <213> Glycine max

<400> 4838

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cttgcttcag ggtgacttaa aatatatcta aatatccaaa atatctattc atatgaatat 60
gtgaatattg taaatattct atcttcatcc ctctatatct gaaaccccat aatttcaaca 120
cgaagtgata tacatgtgtt gcaccttaat ttggttggtt cctttggtgt cggctgaaga 180
taacactgta atgtcttgtc tatgttttat ttcacccaaa gcacatggtt ggttttcttt 240
tgttactcaa tcaacttata tgcaaattca atactttggt gcgtgacatt ttggaggaaa 300
tatttccatc tatcgccgag cggatattca ctgttattcc tagaaatgga ttaccttctt 360
ctggttctga tgcaatcact gaggtatgaa aatgttgatg cagttaccta ataaatagct 420
gggttttttt tggtcctttt cttttaattt acttgcttta agttacgttt gtatatattt 480
gctatatgaa tgctctttat gacttgatta ttgttcatta 520
```

<210> 4839
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4839

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 gaacacaaaa gcatgatt ga ttagagaa at atcttcatat gcatcagctt gtttggttaga 120
 aagaccca at gctttttacc tattattgtc aattttactt atttgcat tt actgttttta 180
 ccatacaagt agttttat tt tgttttta ac catcgtttat caatgttatt ccaacaatgc 240
 ctgattttcta aataaaaactc tgtctaataa gcaagttccc tgagttcgat actcggatca 300
 ctccatttta attttaaaata cttgacaacc cggtgcgctt tccggcaa at cagattttccc 360
 ttgaacatat ttgcataa ag gaaaatgg ac caaaaagtaa ctgcaggg ga aatccaacac 420
 ctttctca at acatttga ag cacttgatgt tactagttat atcttgtgaa ctagcctttg 480
 gagggatttc ctctatgttt ntacccttat catcctttgg cttcgaaggt ggtactccta 540
 acacacttgg agcttgtcct ttttt 565

<210> 4840
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 4840

tttcgtctta cagaatgcaa aaagtttata cggataacca ctccggtggt ttccgccgctc 60
 agcgtgactg ataagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaattctcc 120
 acgtgtcaac aggcttgtct gccgcgattg acgaagggcg cagaagacga cgttagtctc 180
 tgcgtgctat caggcttttc gtcatacaga cagcaaaaag tttatacggg taaccactcg 240
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 catgacgtaa atgtccacat 320

<210> 4841
 <211> 591
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4841

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ttgatcttnc accaccgccg ccttcatcat cttaaaatta cattttaata ttattactac 60
tttgattttc aaccttgtat tttggctata ttactatggt atttgaacaa tttagtattt 120
ccttattttc atgggttggt tgaacaagta tgttatttga ctatgtggat tttataagtt 180
aatctattta tgattgctac ttcatgggtt ttttttcttc atgttgaggt tactattttt 240
tatgaatggt gtacgaatgt ttaagatata tgtgcatact ttaagtttga tacgcacttt 300
ggctttttgt tgatgccaaa gggggagaga aatagggatg aatcaagaac tcacatgagt 360
aaataattta attttaaaat aagcataaat tcaaaaacaa agggggagca tttataagag 420
tgatcgacta ggaaaaagtg tgtgtgtggt tcttgatttc agaagttgtc atcatcaaaa 480
aggtggagat tgtggaagca aagcttcatg atgaatcana aatgattcaa aggggtttga 540
tgatacaatg atgacaacaa aaatgatgac aaggcgatga acaaagctc a 591

```

<210> 4842
 <211> 496
 <212> DNA
 <213> Glycine max

<400> 4842

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aggtttgttt cttcgtcaag ttttgtaaa ggtgtccctt tctgtgtgtc tgtgaatgta 120
taatctctta ttcatatttg tgatttgatg caaagtgctt ttgtccagag tcatgcttgt 180
gaataatgat tttgggtgat aaaatatcaa caagaaccat atcaagacat tgtattaata 240
taatgaaaat tttcttgtct gcaacattga gaaccaatag gatctccctc agctcagttc 300
tatgattccc tttgatttga cagggtgtta tgattactca tggaaacatt gtagcaacaa 360
cagcagcagt tatgacaatt attccaaatc ttggtagcaa ggatgtgtac atggcctact 420
tgccccctgc tcatgttttt gaaatggcag cacaggtaat ttcttcttag ctttctaact 480
gtcaaagtag ttgatg 496

```

<210> 4843
 <211> 486
 <212> DNA

<213> Glycine max

<400> 4843

ctaattaacc taaaattgag agaaaatgat tttttaacac acaaaccgga agtactaaat 60
atttattacc aaataaattg gaataatctc atacaattta cacaagtttt atacataaaa 120
ggtagtgatt ttcaccgact aacagaggcc tctacaatca cctttcctcc ttctctatta 180
tactgccatt gatcttcaag aagcaaatga ctctattgat gaacaacatc caaagtctac 240
aagctccaca tgaagctaca tcatgtggga tcaagaacag cttcatctac gagaagctct 300
tttgcttccct ctatcttttg cttgggcaat tcaatttaat aacgtattct taacaatttc 360
tccatgtatc tgcttcattg ccttgccggtt tggttctgct gaaagtttat tccaataaac 420
acaccgattt aatcctacat ctacacttgt tattggattt ctatgggtca aatttatcca 480
tataact 486

<210> 4844

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4844

agtgacctat aaaaccagc ttccgttaac aaattattga actggagaac gataaatcaa 60
attccataag tgaagaagac aagggaatgt aacttacata gcttattaaa gctactgagg 120
cattcagaaa aaaagaaaga aaaaaagcta ctaggagcca tatagtcgct cctcgcaact 180
taaatacacgc aggggtagat taaacaaggc caaagcacia aaggaagaaa ataaatcata 240
acataccaaa aactaattat ggtattaaat gaatatgttt tcatttcata tatgttttga 300
ctataagttg gcccaattca ctatattttt ccaaattccag aaattcacaa gaattataaa 360
accaatatat atatatatat atatatatat atatatatatt ctggtttcaa ccaaccaaca 420
aaactataat gcaataggaa tttctactta aaactcaata tatcaaggat taattaaaca 480
aacataaact gacaatctca acaaattaat aagcatgtng ccaggaacat aatgaaacc 540
ctatagaaat gagggaccgc gaaaaagaaa gagaatcttt tgaggagcac atgcaagcta 600
ctntaaactt tacatctagg gttatac 627

<210> 4845
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4845

tctacttatg tggcagggcg ggcttccttc actttcttgt cttccacgcg agctctgacc 60
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 accatacttc ccacgatttc cttgggcatt tatcaggcta gttatgccgc cgctgtcttt 180
 gcctaaaccc attccgggtt cataaccgtt cccaacata actcgggcca tcattactgc 240
 tgcacagac agacaaggct gccacagaa ggagtccacg gaggaaatgc tgaccacctc 300
 caaagactgg aaagtgggtt ctaacgattc ttttgcggt tccacataaa gcatagagga 360
 tgggcagctt accaagatgt cttcctcgcc tgacacgatg accaagtgcc cctccactac 420
 gaatttcaac ttttggt 437

<210> 4846
 <211> 615
 <212> DNA
 <213> Glycine max

<400> 4846

gaaagataga acagccaaaa agactgacaa actgacatga ataatgtact attgttgtaa 60
 gcttttcaag gaatcaccgc atcctgatga aaagcagagg caacaactca gcaaccaact 120
 tggccttgct ccaaagcaag ttaagttttg gttccaaaat cgtcgaaccc aaatcaaggt 180
 atctaaattt atttacctaa atattactca agaatatatg caaacttaat ttatttaatt 240
 agaaattatg taagcattat gcaatattat tgccttttgc aggcaataca agagcgccat 300
 gaaaattcat tgttgaagac agaattagac agacttaggg aggaaaataa ggccatgaga 360
 gagaccataa acaaactctt ttgccccaat tgtggcatgg taacggctac catagatgct 420
 tccatgtcca ctgaagaaaa acaacttctt attgaaaatg ccaaactcaa agccgaggt 480
 ataaatttgt ataaaactaa atctaaatac aaggacatg aaactttaaa aaaagaaaat 540
 gtattaatgc tagaataatg gtggatctat gtgtcaaagt acaaactaca atcttaatga 600
 aaagattccc taata 615

<210> 4847
 <211> 684
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4847

tatatcgttg ctagcaagca gtatatcatc gacatataac accaagaatg agtattttact 60
 ccactaaac ttgtggtata cacaatcatc aactgcattt gcctcaaaac catatgaggt 120
 aatgacttga tggaacttgt aataccattg acgggaacct tgcttcaaac catagatgga 180
 cttatttagt ttgcaaacca tagactttga gtcacctgat acaaagtfff ctggttgcac 240
 catataaatt gtttcttcaa tgtcaccatt tagaaacata gtcttaacat ccatttgatg 300
 tagctctaaa tcataatgag ctaccagtgt cattattggt ctaaaagaat cctttgaaga 360
 tattggagaa aaggtttctt tatagtcaat gccttccttt tgggtaaatc cttaggcgag 420
 ccttatatct ctcaacattg ccctttgaat cccttttgat tntaaatatc catttgtaac 480
 caataggttt cacactttta ggcaattcga cgagatccca aacgtcattg tcttgatatag 540
 atttcatctc atctttcatg gcattgatcc aattttgaga gttagaacta cgcatgactt 600
 gtgataactg ctaaataatt gtgaataaat gtagaaaatt agccaaattt ttgctttaa 660
 atattattta gcagttattt gtga 684

<210> 4848
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 4848

gattgatggg gaccccagtt gatagaacga gattaggcta cttgggagta cctgagctca 60
 gttgaaagtg ggctactggg gaatgtggat ttatgtgtga ttctgtgatg tggatagtcc 120
 acttgacca ttgctcgatc gcgagctatt accacatgtg accggtaccc gataatccta 180
 caagcttgaa gtgaggaagt ggggaatgga gagacttcct acttttattc gttgaccaca 240
 aagaggtacc tggagatatg atccgggggt caggagacct tggggacgtc aggtgtggag 300
 acttagatca taaccatact tgaccctgc tcaccca 338

<210> 4849

<211> 242
 <212> DNA
 <213> Glycine max

<400> 4849

ccttcccgcg aagcttcttt tcatgtccgc ctgagtgggc ctataaccta aaccatactt 60
 cccacgaatt cgttgggcaa ttatcaggct acaaatgccg ccgccgtctt tgcctaaacc 120
 cattccgggt tcataaccgc tccccaacat aactcggggc atcattaatg ctgcatcgga 180
 cagacaaggc tgcccacaca aggagtccac ggaggaaagg ctgaccacct caaaagactg 240
 ga 242

<210> 4850
 <211> 958
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4850

cgccccgcac cgctgttatg ttacgcccc gtccagatac cgaccaaaca ctttcgcctt 60
 ctctncaccc cccccccgcg nnttgaatct tggcntggag acccttagaa acccaagcct 120
 ctacctatgt cgcccggcgg actgccacca ctaaaatgac tttcactcca gcccttagca 180
 caggtcttcg ctccgacaag ctgatttcca tgtccacccg cacgggctta taacctacac 240
 catacctccc acgaattcga cgggcaacta tcaggctaaa catacccgcg ccgtatttgc 300
 cgacacccat accgggggtca tagaccgctc cccaacaaaa ctaggggccat aatcactgct 360
 gcatcggaaa cacaagctg cccacgacaa cgaagtgccg gcgagcgaaa agcctgtccc 420
 accctccaca aggactggcg atcagtgtgt ctctaacac aaatcatcag ccggcattcc 480
 aaagtgaggc attagaggat gggggccggt cccaagaaga gctgctgccc cacaagaaga 540
 ccaagcgccc ctcccctacg aattccacac ttctggagaa gtgaacaaag ggccaaaatt 600
 cccattgacg cagaagtcac cgccgcccc acaaacgcc ggtaaggggg cgggcccat 660
 ctcaaagcgt cgaaaagcga ctccgacagc gagcgaacgg accatacgaa cacggcgaca 720
 acaaaacccc ccacctgggc ccaacagacg aagagccgtc cacaagcccc aaaccaacac 780
 tcggaaaaac gcgatcagtg tggcaaccac cgccaagcga cgtccgtcca caaaggacaa 840
 aacacgcca caaaccacac cggcacgccc ccaagcctct gcacgccacg acccaagcgg 900

caggcaaaac tacatcacgc gcgtcagggg aaaggctcga ttcgcccgcg atcacccc 958

<210> 4851
 <211> 883
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4851

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 ctctctttcc ngcccccccc ccttccttcc ccgcncnccc ccccntttga cctgatcgct 120
 gtttaggggg actttaaact cagggtggag cttgggattc ttttaaaagg ggactttaaa 180
 aatgttgaat tttaaaaaat ctcttaaaca ggctctttga aaaatgggaa cttttggaaa 240
 ggttttttct aaaacaaccc ccggtgaacg attaccctt aagggtgatt cggtacccat 300
 taaccaaagg ggctttttct tttggatttt tgaaaataaa acagttaaaa gctctggtga 360
 ttgattacaa acattggggg attcaataca ccaatttaaa atacttttaa actggtttaa 420
 cataaagtat aattattgga atttgaaaac ttaaccgtct taaacactgg taattcattc 480
 ctacttttgg gtatcgatta cacaaaagaa aaactctttg ggatgaatta atggaaacct 540
 tcttgggggt cctaataattt tggaaaacat tttttagact tattctgatt gagccttctc 600
 ttgattctga aacttgacct gataattttg aatcctgaat ctggaaattt ggattttggt 660
 tgaccctgaa tctttgggta atcaaaaaac ctggaagaaa ttgttcccac aagattattt 720
 gaaaatggtg aaaaaaaaaa aggcgctttt tctttcgcgg cttgacaccg gaaaaaattc 780
 ttgagaaatt attcccaaaa taatccagtt ttaaaaaatt gcctttaata gggaagcccc 840
 tctttaaatt ccgataagaa aaggacaaca ccccatccaa tgc 883

<210> 4852
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4852

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 aagttattgt cgctgaatt tgcttagagc tttcgttttc aattttgagc ttctcgatat 120

attacgagac tcaatctgac atccgagtta aaagttatcg tcgttagaaa tttctcagag 180
 ctttcgttat caattacgag ttactcgata tattatggga ttcattcgga cattcgagta 240
 aaaaattatt gccgtctgat tttgctcaga gattccgtta tcaatttcga ggatctcaat 300
 atatcacagg attcatttcg acatctgagt aaaagttatt ggcctttgat ttgctaacag 360
 cttctattc 369

<210> 4853
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 4853

tgccacccag ctgcccagg cgagctaggt ttcttcctcc agaaggcacc gccttctagg 60
 gaacttcctg gaaagaccaa gtgggcctga ttgctatttg caccctctgt ttactaaata 120
 caccctgcc cttttttgct gattcttctt ccgtaacggt atggaacttt acgaatttcg 180
 cgatgatact cgttttcttt ctgtaatgtc acgaaacctt acggattacg caatcctccc 240
 ttctttggct tccggaatgt tacggaactt tacagattgc gcattaacat ttccttttga 300
 cttccggcat gtcacgaaac ttcacggatt gtgcaacaat gctttcttta gacttccggc 360
 atgtcacgga acttcacaaa ttgcctaattg atgg 394

<210> 4854
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 4854

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acaaagtgg 60
 acctggagaa tatgtcgcgg gggtaagaa accttgggga ccgtaagtgg ggtgctattg 120
 cccaaaacca aacttgacca atcccgaccc aaccgggca taatcgggtca gtgaaaacct 180
 gtgatgtacc taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac 240
 aaagcaagga ggcttgtggg ggctggccaa ctgtgaattt tgtgtaatat gtggatgggt 300
 gcctctggta atcgattaca aggccttaaaa ttg 333

<210> 4855

<211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4855

ntatgcttgc tctcttattc acaccaaaaa aaggagacca aatctaccaa agccaaaatc 60
 tcctacaggt ccaaactcaa aaagacccat tgatctgtga tgattatgcg cattaccctt 120
 tgatttgatg ggaaatgact tgcaaaatcg atttatgacg tgtttgtgat ttggaattga 180
 gaggagacac ttgccagtgt gagattttat acaccttga gtggttttcc tccattttat 240
 tgaatctagt gtttcttcta atgtttctgt agaaaagaaa tgcaaaatgt cttaatctca 300
 ttcttggtta tgagaaattc tatctttgtg ctttcattcc tcattcgtgg cattatTTTT 360
 gaaaaaaaaa gtgtgttctg atcggtttgg gagtttgatt tctttaccaa gtgtgttcgc 420
 attttaatgg aagttttcac aaactccaat gccttctgtc ttttacattt caaagactgt 480
 aatgtcttca gtcttttaca atttcaaaga c 511

<210> 4856
 <211> 586
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4856

tagaacaata tacttgtcct tcatttaatt gtctttgggc ttgacgacca cgatcaacaa 60
 agtactttcg acacctactg tatgttgatt tcaccaacgc tgttatcggg atgttgcgac 120
 aatccttcaa aaccttattt atacattcag agaagttggg tgtcatgtga ccatattgac 180
 gtccttctct atcataagcc atgggtctatt tttcctttga aatgcatca atccatgttg 240
 ctatcgctgg actcagttgg cgaaattttt cttaaatttg ataaaaaaaa tatgcttgca 300
 aggagtgtaa cctgcatgaa attagttagc aacaacaatt ttaagtatat gtcaaactta 360
 aattaagggtg agcatgatca acgaaatggt acccaatttc ttcaacattt ctttttgttt 420
 ggcattattg aatttgtgat tgaaattgct cgctatgtgt cngacgcagt aaacatgata 480
 accgtgggga gattgtcaac caagcgcttc attagccaca acgaacttta tactcgcggtg 540
 acgatcagat atgagacana taccatnntt atctatgaca tgttca 586

<210> 4857
 <211> 531
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4857

tcctcaattt ttttggattg atgctcttaa gacggttgcg tatatattaa accgagttcc 60
 aacccaaatt gtctcaaaga caccttttga gctattcaag ggttggaac caagtttgcg 120
 acatatacgc atttggggat gtctgtctga agtaagaatt tataatccac aagagaagaa 180
 actagaccct aagaatatta ctgggtatct cattggatat gctgaaaggt ctaaagggtta 240
 taggttctat tgtccatccc acaacactan gattgtggaa tcaaggaatg caaagtttct 300
 tgaaaatgac ttgatcagta ggagtgatca atttcagaac atttcttctg aaagggatca 360
 ctatgaagct taaccttcta ggacaagtaa taggttggtta gtcattccca cccctcaagt 420
 taaaatgggt gttagacaac cagtgattga agttccacaa gctgttgaaa gtgatcatgt 480
 agatcaagtt gtttgtgagg aacaaaatga tgatattgaa acaactagtg a 531

<210> 4858
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4858

tatagagctc tgtagtgggt tgtaaattga ataacgattt aaacaaatga attaatatat 60
 tcttggactt gannagaaga ttannaaata gtaccatatt ttaatttaag atgcccgaag 120
 cttcgacaaa ataccgacaa caattttatt aacgaaaaaa ataagtattt ctattaaata 180
 aacttgtttt attcaaatat tatattttat caaaaacaag aaatttggaag aagtaagtaa 240
 ttgaatttct ttatccaagc ataaaattct aaaaatgaag caattttatt tattaatcca 300
 agcacacaat tttgaaaatg aaataatttc atatgaagca tttaaaattc tatagaattt 360
 t 361

<210> 4859
 <211> 444
 <212> DNA

<213> Glycine max

<400> 4859

ggataatgtg agtgtatgta tacatgattt tgatgatgtc aaaagaacaa tcagacgaag 60
gtgcttcaaa ggataagcat ggcttcaaga ttaatacaag actgattcaa caaacaagaac 120
cttgcttcga gattaactca aagatcaagc cttgccttaa aacaaatagc tttcaagaca 180
tgcaaggctc tagtaatcga ttaccaggcg ttgtaatcga ttaccacgca gtgtaatcga 240
ttactagcag acaggggtga aaaatagctg gtgaaaagag ttttacattt gaattttcaa 300
catgtaatcg attaccatat gtgtgtgatc gattaccagc aacgaaactc ttgaaattca 360
gattccaaaag tcatgaccct tcaaattata actgtgtaat ccattacacc aacattgtaa 420
tcgattacta gtggagagtt ttca 444

<210> 4860

<211> 538

<212> DNA

<213> Glycine max

<400> 4860

taacggtatt gattctgtga tattcctctt gccccaaaaa gataagaatt ctgttagcag 60
aagatagtat aaataagtat gtaaataaaa tcacaatcat aaatgagaat atatttcctt 120
gccttattcc ttctccccctt ccttctatgg aagccctggt cctcgaaacc agctaattag 180
atctcccccc ctaacagtca atgtgtttga ttgcgagaag gacatcaacg tgccagttac 240
cggtgttttc gtggttgaaa atcgagcccg aggagccaga gtggatcggt tccttcatct 300
tgtcacagag tgtgacgaca gatttagaca aatccgtgat ggtggctgcg atcaaattcca 360
actttgacga gtgggtgtcc agtttctctg tctgtgctgc catgggtggc gcgtgagact 420
gaagcgtgga cttaatggcc tcaagctcta ctttcaaagc gttaagtctc tgagaagcca 480
tccttgtaca cgtacacgat tgagggtgaaa ctcttaacga aagcaccaat gatacata 538

<210> 4861

<211> 522

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4861

tctacttata tggcagggcg ggcttccttc actttcttgt ctccaacgcg agctctgacc 60
actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggtttt tatcaagcta gttatgccgc cattgtcttt 180
gcctaaaccc atccccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240
cgcacgcggac agacaagggtt gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300
aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggaaga 360
tgggcagctt accaagatat cttcctcgcc tgacacgatg accaagtgcc cctccactac 420
gaatttcagc ttttggtgga gtgtagaagg cacaactccc actgagtgga tccaagggcg 480
ccccaacang cagctgtagg ggggggtaat atccattatt tg 522

<210> 4862
<211> 580
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4862

tataagaacg aaattgccta aatcatttcc aaatatgcat gtgaattacg aagcatcaac 60
aagaatcaag ccaaggctat tgtgcaagct atcaatgggg caaaacacac caaaagatta 120
tgatgatgga tggctcgaat tctcacaatg gtaaacttat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggaaaaaca aggatttcaa ataacaaaat gtcaagagac 240
ttttattttc agaacaatta cccattactt gaacatatcc tataattcaa agaaaaatat 300
gcaaagttgt acatgcaaac agaattgacc taaaatatta aactagaaac ccaacaaaac 360
taacaaaatt aacaaactta acaaaactag caaaacaaa accaaagaac actcccccca 420
tacttaaaaca acacattgtc ctcaatgtag cacaattaaa agattaaagg caattaagcc 480
atcaaataga atcggacaaa tgtaataaaa gtaaacgagg ggataggaaa agaaaaactc 540
cctacgntat ggtagacaag acccaatgtg taattggatg 580

<210> 4863
<211> 266
<212> DNA
<213> Glycine max

<400> 4863

tgactgattg ggtattcaac accgaaacga tcatgctggg tatcgtcgaa cgctaccctg 60
aacattctgg ttgaccact gcccacaatc gtgcatcgcc aaacgattat actcaagtat 120
acacctttgc tgaggctgcc agtacgacgc tggactatct actgccagac gcacccatgt 180
gtatctatcc caatgacctt acctttcacc cgagtataca cctatgccat ttgctatcct 240
acgccaaggc tatggggtgc acatac 266

<210> 4864

<211> 927

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4864

gggaggggaag gagtagtgta ngttgtgtat aaaatttcaa taaaaatatg tgtgtaataa 60
aactaggagt atgtaatgat agaantacnc ccncncaca ccggggattt ttttgaataa 120
gttgaacntg ctaannngtg tagaaaaaga aactcnagg gttgttttat atgggaaggt 180
gggnataatt nagatTTTTTg aatttaaagg gagatntgga aaatgggtgat tttttggggg 240
aaggttatat taatgataag gctggagagg gggttataga gctaaacaat atttatggag 300
gaatttgttg ggggtgtgaaa aaggtaatta tgggggtatt ggatttgtat aaaaaattt 360
tgggttaata aaagggtgtt aaaataaatt ggggtattat taatggggga ttggaaagat 420
aagggtgtgt aaagaggagg ttaaggagga aatggtgagt aaattaaaag aatggaaagg 480
gggttttaaa gattgttttg ggggtttcaa ataaagtatg gaggatgggg aaaatattaa 540
gatatgttat ttggttgaaa tgatgagaaa atgggcgttt agtaagaatt agagattttg 600
gtggaaggaa aaagggaata gtttaataaa tgggataaag ggggaactaa aaaggagttg 660
ttaggggggt gaatattaa tatttgaaa ggaaatagaa agggggaggg gtatagggaa 720
tgagaggaaa gaatttgac taaaagataa gggataggag tggaagaata aagaataatt 780
gaggtaggtg ttaatgggaa gaattgatag gaaatatggt aaagaggtgt aaaggattaa 840
gtattaaagg aaaaaatatg tgtgatggag tggtaaataa tagaggtgta atgttgaatt 900
gaangtgagt aagggttaata atgtgta 927

<210> 4865
 <211> 779
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4865

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tagcttaaaa tggttacaac agcgtatact actctagacg aatgtgtgtc cttatatccc 180
tcttgttcga ctaaactgtg accaatcgaa aaatagtgcg tgcacactta aaaacagaat 240
ttactcccca tatccctgcg tgaagaataa gagaaaagat ttgcttcatt aaatttatag 300
acgcggggta ctttccacca aggctcagat gcataacgat ctttcccaca tgggtgattac 360
accgcgagcc tatgatgttc ttgcaatgac agacgccttg ctcccatca taccctgccc 420
tttatacgtc tcagtcctta cgtccagcaa ttcttttagaa gtccccaccc aggggtgttca 480
gccattcggt acataaaaaa ccccttcgtt tatgagattc ccaaaccctg ccaatctcta 540
taaaagtggg cacgtttgct agctccaaag cgattttgcc gaaattcgcc ctgtgggggtg 600
ccctccaatg ctgggggact tttggtaaaa gtctcttccc ctttctcatg gcaccatgcg 660
gggttttaga gatttagacc ctttctatgc ggcgtggcac ctccctaata tgtacgcctt 720
gaggggagaaa ctggcttccc ttctcccttc ccatacctgg cgctacacac ccagtgtct 779
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<210> 4866
 <211> 527
 <212> DNA
 <213> Glycine max

<400> 4866

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accctgccc tttttgctg attcttcttc cgtaacgtta tggaacttta cgaatttcgc 180
gatgatactc gttttcttct tgtaatgtca cgaaacctta cggattacgc aatcctccct 240
tctttggctt ccggaatggt acggaacttt acagattgcg cattaacatt tccttttgac 300
ttccggcatg tcacgaaact tcacggattg tgcaacaatg ctttcttttg acttccggca 360
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tgtcacggaa cttcacgaat tgcctaata tgggtgccaa gtacctcgaa gtgggtcaaac 420
gagggtcgca tcccaacaaa cggatgggtc ccagacgaaa ttagggatatg acaattgcat 480
acaatagtta tcacacagtc tgtatcatta agagcacgtt ctccccg 527

<210> 4867
<211> 528
<212> DNA
<213> Glycine max

<400> 4867

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atagagcaac caaagatttt tgtttcgaat tcgatataat caagtagttt agatcctatt 120
gttgtgccta ggctttaagg gttactttct ttgttgggca tactcttctt taatgttcca 180
gtgaccatta atatacaacc tcttattgat atgttccctt tttcaccttt gtccgtttca 240
tttctctgca tatttatatt cattgcaatt atatcatttg ccgcagatcc gataatgagt 300
cctgtgaaag cagcgatatt gaggacctgg atgttgactt tgagcagcca gtcaatcaaa 360
ccggggagga aaaagatgag gattggggat tcctcttgga tttgaggaga atagtggaaac 420
gggaagaaag agagataaag tcgcatcaag aggagacaga ggttggttaac ttgggcactt 480
gtgaagaaaa aaatgaggtc aagattggca cttgtgtgtc cgctaaca 528

<210> 4868
<211> 597
<212> DNA
<213> Glycine max

<400> 4868

tcatgatgat gaatcaagtt gattcaagta tttttgataa tgacaaagtt gatgacaaaa 60
atcccaaaga atgatttcaa gattaagtca acaagaaga atcaagaaga ttcaagaatc 120
aagtgaagtt tgatttcaag attcaagaaa agatgaattc aagattcaag agaagaaatc 180
aagaagactt cacaagggaa gtattgaaaa gttttttcaa aaaacaaaca tagcacaatt 240
ttgttttttc aaaagagttt tctcaaaatt ttctaagtta ccagagtttt tactctctgg 300
taatcgatta ccagtttctt gtaatcgatt accaatggca aagtttgatt tcaaaaagct 360
ttcaactgaa ttgcaacgt tccaattgat ttcaaaatgg tgtaatcaat tacaagatat 420

tggtaatcga ttaccagtgt atctgaacat tgaaattcaa aatcaattgt gaagagtcac 480
 atcctttcat aaaaagcttt gtgtaatcga ttgcatgggt ttgggtatcg attaccagtg 540
 acaagtttga ataaaaatca aaggatataa ctctttccat gggtttttagt ttttttt 597

<210> 4869
 <211> 590
 <212> DNA
 <213> Glycine max

<400> 4869

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 atttataaca tcatatgggt tcacaaccag aagaagcaac ccttctctct ttatctacat 120
 ctcggtgaac ataactgtct attttttgggt gtatgttgat gacctcttc tcacaggaaa 180
 taacactaca ttcatagaca cattcattga gttcttatct aatcggttgt cactcaaaaa 240
 catgggggca ccatactact ttatgggtat tgaacttata cccatgaact caagcatggt 300
 cctctcacia cacaataca tcaaggatgt acttgagaaa ttgagatgc aggatgtgaa 360
 gtcgtcacc acaccacttg cctcgacgac tacactcatg ttgcatgatg gtacaccaac 420
 caataatgct actcaatadc aaagaattat tgggtgcatta caatacctta ccctaacaag 480
 acctggcctc tcattctcca tcaacaaact ctcaatatta tgcacaaacc aaccttcctt 540
 catcttcac atctcaggcg ccttctcgaa tacttgaagc cactattaac 590

<210> 4870
 <211> 524
 <212> DNA
 <213> Glycine max

<400> 4870

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 gcttactaaa gtttagacta atttagccta agctttgtcc tcagatccct cttgtagac 180
 tagacttaga ccaacaaca ttattgtaac agcacttta aaacaaaat ttaatccgca 240
 gatccctcct gtaagaataa gtttcaattc tgcttcattc aatttctaag gcaacaatac 300
 atttcccaat gctaaagtca cctaactatg ctcaaatg ggtgattaaa ccaagagcat 360

acgaaattta agcaatgaaa gaagcattga acacaagaaa cacaatcaat tagatattaa 420
 agtaattaca tcagctattc tttagaaatc cccaacaagg gtgttttagcc agccattaca 480
 gaagaaaccc taacaataat gagattacaa aacctagcta tctc 524

<210> 4871
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 4871

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60
 ctattttgaa actgggaatg cctctaacaa cacctttgtc aatgatattc ttcattgcctc 120
 ttaagtgcag atgtgcaa atcttgatgcc atattttgac ttcattcttct ttggaggatg 180
 gacatgtgga ggagtaactg ggctcttgag gcgtccataa gtagcagttg tcctttgatc 240
 tgctgccctt cattagaacg tcattcttct catttgccac caaacattct gactatgtga 300
 agcttacatt gaatccttca tgacacaact gactgatgct gatcaaattt gcagtcagtc 360
 ccttcaccag cagaactttg tttagactag gaactacatc ctggactagc tctaccattg 420
 caggatcttt ccttta 436

<210> 4872
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 4872

tcgacgaata tggcacgacg gtccctcttg actctgatgt ctgctacacg aactctgaac 60
 actgagactc cttaccgcga tgccccaatc tatgagcgcc tgaatgcgat tataacctaa 120
 aacatacatg ccacaatgag cttgggtata tatcaagata cttatgccgc cattgcctat 180
 gtctaaaccc atcccggcga cataaccgat ccacaacata gctcgagcga tcattatccg 240
 acgcatcaga cacacaaagt tgcccacaga aggagtccac ggatgaaatg ctgaccacct 300
 caaaagactg aaaagcggtt gataaccatt ctattgcgag accacataa tgcattggacg 360
 atgggctgat caccaagata tgatactcgc ctgacactat 400

<210> 4873

<211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4873

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aaattttcat gcaggtggac cttcttctag taattccgac ttacagcagc ctcttatccc 120
tcttccattc ccacctagag cgattccaaa caaaaaaaat ggaagaagtg gaaaaggaga 180
tcttgagac cttcagaaaa gtagaagtga acatacctct gctagatgcc atcaagaaga 240
ttccaagata tgccaagttt ctaaaggagt tatgcaccca caaaaagaag ctcaagggca 300
atgaaaggat tagcatgggt agaaatgtgt cagcattgat aggtaaattct gttcctcaca 360
ttcctgagaa atataaggac ctangtactt tctgtatacc ttgcatcatt gggaacatta 420
aatttgagaa tgccatgcta gatctangag catcagttag tgtcatgcct ctgtccattt 480
tcaattcttt atctcttgga tccttgcaat ctac 514
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<210> 4874
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4874

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tttcagcgtg atttgtcttt ttgtgagggg attttgtgca aggttcactt tgagtgcaca 60
tatccaagg aagattaaac cactcatgct tcaatttatc aactactct taaaaagttt 120
tatatgattt accaatttta gtcaaagtcg aatattcatt tttggcgaaa ctctatgtta 180
tcctttttta gtgaaatgtc agaagtgaag cgtaccacat tcggtagtga tgtacacatt 240
tttccatggc taagtaaggg taattcatga atctaaattg aatgattaag ataagcctac 300
acaataatcc aatgggaccat gctctaagct tcttttgtcc atttaattaa actccacaag 360
tccccaagc tatgggtcat tctttcctct cttcatgagc tgagccagag gaaaagagac 420
accattttcc acttttc 437
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<210> 4875
 <211> 504
 <212> DNA
 <213> Glycine max

<400> 4875

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ctcaaaagtc aagaacactt catgataaca aagatgatga tctcaagaat caaagaatga 120
gttcaagatt gaatcaagta cacttcaggg atcaagagga aagttgaatt caagaatcaa 180
gaatcaagtt tcaagattca tgttccaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaagactca atcaagataa gtattaaaaa acaatttcaa aaattgagta 300
gcacatgatt ttttctcaaa accttttatt agagagtgtt tactctccgg taatcgatta 360
ctagattatt gtaatcggtt accagtagca aaatgggttt caaaaaactt tcaaactgaa 420
tgtacaacgt tccaataaat ttcaaaatgc tgtaatcgat tacaagtatt tggtaatcga 480
ttaccagtgt gtctgaacgt tgaa 504

<210> 4876

<211> 405

<212> DNA

<213> Glycine max

<400> 4876

tttgttggga atctctgccg agtcttgatg taaatattat ttactatcta tttaatgttg 60
ctttgatgtg ttcattgctt ctatctgaat ttaattctaa catgtttttg gttcgatcac 120
ccatttgtgt gtaaagtttag gatttttaac attgaaaaat attttgaatc cttataactg 180
gatataacat ggctagataa ctgtattatc aagacacaga gtgcagggac tctactttta 240
ttatgttgtg accttaatgt tgttccgcta ggccaaattc gatgagggat ccgagaacga 300
aatttagtta gaattagccc attcatgcga gacatcagtg tttgggacaa ttgttctcac 360
cattgaacac cgaagccaca tttgatagag aaaaactttt tattg 405

<210> 4877

<211> 326

<212> DNA

<213> Glycine max

<400> 4877

aatacctcag cttcttgaca tatttgggaa attgatttta tatacaaaag gggcttgctt 60
cagaatattc catttttttg gctttgacaa gtcttcatat cattgagctt atcggattaa 120

gatgtattcc aaaagaagaa caacgagcat ttactggga ccttaccctt gatttattat 180
aaggggaaaa gaggggttaa ataagaataa aaaggaaaaa gacccttcc taaatacagc 240
tttggcgcac caaaattgtc ctggcttcac attgacataa gcccggttaa caaggatata 300
ctatttcatt gggcgctgaa tccttc 326

<210> 4878
<211> 562
<212> DNA
<213> Glycine max

<400> 4878

tgaagctcaa gaaaagcttg aagaagtttt ggcttttaca tgcccaactt ccttgagtcg 60
catttgattt ggttggttatc ttggttggtg catcttagta catttgatat ttgtgttgca 120
tcatgcatca tcatggtttag tgtgaagaaa agtttctaag ttagaaaaat ttcttttagag 180
gcaaaaactg ttttaaatcga ttacagagtt gtcgtaatca gttacaacaa gttgtttgaa 240
ccttaaagag ctaagtctcg tatcggttta attgattata gtagtatttt aatcgattac 300
actgttggtt gagataatga ttgatttatt caggagtctc tgctttgatc gattaccaag 360
tggatgaatt gattacttct ttcttggtca agtggtcaaa agtgaacaag aacactctaa 420
tcgattactt aggacatcta atcaattaca ttgttcttga gttgctttcc aaatgttgga 480
tgaacacttt aattgattac ttagataatc taatccatta ctttggttaa ataatcaact 540
atcttataga ttttaattgat ta 562

<210> 4879
<211> 621
<212> DNA
<213> Glycine max

<400> 4879

aaatggattt taaaccccca aaattgtaat actaaatatt tattacctat acttaataga 60
aaatacttat aacactacaa aataaccatt aattggaaga agttgatata atttacacaa 120
gttttataca caaaagtttag tcgtattcac cgactaacac cttttacata acaaaaatat 180
gtttatgctt tataattttt ttataaaaaa attgcgatta attgcataaa taagtttttt 240
atctatagga attaaacaca atgccaaagg atttataata ctacatcct gctcaacaaa 300

aatatgtttt tgatttataa tttttttacaa aaaaaaaatt gttattaatt acataaatat 360
 gttgctttat ttacaattga tgatataagc tacccttttt aatccttctt gaattaatta 420
 tgatacacga cacaaactat ctttaataatg actcattact tttttaatag taatagaata 480
 aaatggtcga taattatfff tattttaaatt tgtattatta atgacactta gtacccttta 540
 tttataatca attaattgac gtacaaaatt aagtaactat gatacaatta gttgtattca 600
 ataaaaaat tactcttttt a 621

<210> 4880
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 4880

gtaccactat ttctttaaca ttttgggttt gggtctcccc ttgaaagcat tctagtgtgc 60
 tctgcttgag cacttgaaag tgggcccttc tcaactccac cccaataata gggcatgggt 120
 gaaagccttt gagattgtgt gccctttctt taaactttga accaatgtgc ctgtgtaccc 180
 gcactttttt catatgatat cgacggttac attcagtggt gtctacttga acagcatggt 240
 caaaaagctt ttctagttat acacgaatgt atcacactac tttaaagatt gtcgcttaga 300
 ggacctacct actgaccttg atgttgatgg attaccacta atgttcaagc acatgaggag 360
 ctctgcttcc cattctatag gaaatgtaac cccaactggt ttcagggttat taatgaggat 420
 ctatagaacc 430

<210> 4881
 <211> 655
 <212> DNA
 <213> Glycine max

<400> 4881

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 taaagctcca ttgttgtttc ttcatTTTTt tccatgtatt tctcacatg tattgtggta 120
 aatgttggtta acatgattct ttagaattta caccgattaa acttgctata taagctagat 180
 ttgattttct atggttcaaa tttcttggtc ttattcttga accatgaatt atgttaagtt 240
 taggttcctt tgagttttgt attgctatft ttttgtggct gaaacctaaa ctataaaatt 300

attaaaaaaa cattaaagta gaagaaaacc tcaaaaatct agagtgcacat gttcacctat 360
 tgtaattttg tcatagaagt tatgtctaga catgaaactt gtcacataag tgtgctgaat 420
 tttatttttt tgtttctttg tctaactcat ttgttcataa gtgtatgaaa ttcttttagc 480
 ctcttagttg atttgagtca actcttgcac gttaattagt ccttaacatg ttcatgcaaa 540
 attcttagag agtctttgat tgtgaacctt ttttttgaac ttttaggttt ccttatgatt 600
 gtgtttattg cgaatttgag tttttgtgat taaaattgct ggctgaaatt ttgat 655

<210> 4882
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 4882

tctcgatata ttatgtcccc gaatcagaca tctgtgggaa gagttatgac catttgtatt 60
 tctcgagagc taccgtagtt caatttcgag tatctcgata tactattttc ccaaactcgga 120
 tatccttgta ataacttatg accaatcgaa tttctcgaga gcttgtgttg ttaaatttca 180
 agcgtgtcga tatattatgt cctataatca gacatccgag tgaaataata tgactagtgc 240
 attttctcga gagcttgctt tgtccaattt cgagcgtctc gatataattat gttccaaatt 300
 cggacatgcg tgtgaaaaga tatgaccatt ctaattttatc gaggagc 347

<210> 4883
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4883

ggccattaag cctatcatat gctgacaata gccgagaagc cccagaatct ctccgggggc 60
 cggaagtaag atgtcctgcc catcgcttg gcgcttggt aataatcggg gaagttcttg 120
 actcccgtc aaggcaagag caaacgac catccacatg ggtgcctctt ggtgtaaaga 180
 gtgcaccacc ctccctctag cctctttttc cgcataact tgggcatact catccgcgaa 240
 tctatgctcg tggagcgggg ctagacccaa ctcttcttg tacttggcga tgatagctag 300
 caagtaggtt tctgtctccc ataacacgct gaaacaagct tgttttggaa cctgaacaag 360
 caatcaattc ctctttttaga accatgccta tgtgctcgcg acaggccctt tt 412

<210> 4884
 <211> 581
 <212> DNA
 <213> Glycine max

<400> 4884

ttgagactaa gatgaagaat ttcacaaaaa ttattttaaac ctatgcacaa caaaccacaca 60
 acagttttag aaaaatcgtc attgaccaat gagtctcaat gacgattttt caaaaattgt 120
 catagactag ctaatgttaa tgagtcccaa cgacactttt tccaaaactg tcgtagtttc 180
 actaatctta acaatgattc ttccaaaaat tatcggttaac aacttcactt aattacaaaa 240
 atgtcaccac ttttttttaa agacaatttt tataaccatc atagatttgc cgtcctggaa 300
 tgcattgtttt ttaataatga attggaaatt aagcgataat atattcattg gtgaatatca 360
 ttaacaatga caaaagcaac tcactagcgg tcaataatac tagaggataa attatatgta 420
 tatgagatag acaaaataat agaatttaca tataatattc cgtaatatgt tccttattta 480
 taggagcaaa cactatcttt acttgaagac tatgtgatat ctcaacattg atccagagtt 540
 ttatatgaac aatataccac ttataaggat gaataaaaag t 581

<210> 4885
 <211> 580
 <212> DNA
 <213> Glycine max

<400> 4885

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 cctcattgaa gctcaaagat ccagccacca tagaagcccc acaagcaagc ttccatcaag 180
 tggtaatcag agcacaagag cttcaagtag gtactcctta aacctccatt aattttttgc 240
 tttaccttct cttccattgt tgtttcttca tttttctcca tgtatctcct cacatgtctt 300
 gtgataaatg ttgttaacat gattcttttag attttccacc gattaaactt gctatagaag 360
 ctagatttta ttgtctatgg ttcaaatttc ttgttcttgc tcttgaacca tgaattgtgt 420
 tgagttagg ttcctttgag ttttgtcttg gtattttttg tggctgaaac ctaaaccata 480
 aaattcttac aaaatattaa agtagaagaa aacctcaaaa atctagagtg acttgttcac 540

ctattgaagt ttgtcataga atcatgtcta gtcatgaaac 580

<210> 4886
<211> 564
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4886

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atcacgcaac gtggcggaaa aaagtggaca gtaaacttga atgaccatta ttgtcaatgc 120
ggaaagtatt ctgtgcttca ctattcatgt tcacacatta ttgcagctta tggttacgtg 180
agcatgaact actaccaata tatagatggt gtttacacga atgagcacat cttaaaagct 240
tactccgcac aatggtggcc tctcangaat gaagcgacaa ttctccttct aatgacgcat 300
ggacacttat ccctgaccca actacaattc ttctgaaagg tcggcctaaa tcaacaatga 360
taaggaatga gatggattgg ctcaaaccgt ctgagcaccg gcaaaaatgt agtagatgtg 420
gagcagaagg gtccaacagc agatgatgtc caatgncatc taaccgtggg agttgntcat 480
ttaattgatt tatgtatggt agacgagtga cttgtattgg gtttaatttc tattgaatgt 540
atttaagttg gggtcctcaa tgaa 564

<210> 4887
<211> 552
<212> DNA
<213> Glycine max

<400> 4887

tgtcagtaag tacactgaag cgcatagtgc aaggggaagtg cgtacaacac catgcatctg 60
tgaggagtcc tcaagttcat tatttatgct gtgaactgca aataaagagt gcacacaatg 120
caaccatcag accatatatc catgaggcaa tcaggaaaat ccaaatatct aactgcaatc 180
atgtcatgct cctttgtaac tgaaactttt gcaatgggtg tccgttttta atagtacttg 240
gccatgggga atcagtttga aaattctata tcagacttca agcaaccgag catatgaagc 300
aaaagatata ctgacattca tcatgtggtt aacaaagaat gaactataaa atgaataagt 360
gatttgaact catggtgtac agcaagaaac aaacaaaaat aacaaggata ttttattttc 420

aaatatgtag ctgtcagatt gacctcacia atttttcatg caaattatta aatagottat 480
 agttatataa gtatgatgtg aataaaaact aaaacaaagg aaatggaaat tatacaaagg 540
 cctaaaaatt ta 552

<210> 4888
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 4888

atggccttagt ccctaacgcg aggcgccctcc acacacctct tctgcatagt ctaacgctac 60
 atccccatgg agtaaaatca ccattgaaag acctcatcga agtcaaaga tccagccacc 120
 atataaacc cacaacaag ctaacatcaa gtggtaatca gagcacaaaa gcttctaata 180
 cgtactccct aaacctccac taattttatg ctttaccttc tcttccaatg acgaaacttc 240
 atttttctcc atggatctac tcacatgtct tgcgaaaaac gactgtaaca cgataattta 300
 t 301

<210> 4889
 <211> 535
 <212> DNA
 <213> Glycine max

<400> 4889

taataaatct atatatgggt taaaacaagc ctccgtgcag tgggtacctta agtttcatgg 60
 gataatttct tcatttgatt ttgatgaaaa ccccatggat taatgcatat accacaaggt 120
 aagtgggagt aaaatatggt ttcttggttt atatgttgat gatattttac ttgacaccaa 180
 tgatcgaggt ttgtacatg aagtgaaca atttcaatct aagaattttg acatgaaaga 240
 tatggatgat gcatcttatg tcacgacat taagattaat agagataaac ctcgaggtat 300
 tttgggtcta tcacaggaaa cctatattaa caaaactcta gagagatttc ggatgaaaga 360
 ttgttcacga aggggtgctc ccattgtgaa gggatgtagg tttagtttga accagtgcc 420
 aaagaatgac tttgagaggg aacaaatgaa aaacatttct tatgcttcag ttgttggaag 480
 ccttatgtat gctcaagtgt tcacaaggcc tgacattgct tttgcaattg gaatg 535

<210> 4890

<211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4890

tgtataagcg agtgcaagaa tgcaggatag ttttgaaacc agtgtctgtg acacgacaaa 60
 agccaccaag gcatatgctc tccatgtttg cacacttgctc agccattaga agtaatccca 120
 gatcattcac tcttcggaag taagtaattt ggaactcttg gcttcgaacc aatgaaagat 180
 gtttcaatct cccaagttga ttaatttggt gaagaccagc attgggttagg tcaaagttaa 240
 ttcttggttc aatcagtggg gcatcttgaa gatccaaatg ggtcaaaagc atgagacctt 300
 tggatattgt accaaccata gcatcagtta tatagtctac attaagacac agtttctgaa 360
 tgcttggaag tatggatggg tgagcangat ttgagggcag ctgggatccc aaatttgggc 420
 taagcagttc agtcactgtc actgaagaaa tgtagccaat ctc 463

<210> 4891
 <211> 598
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4891

ttcataagtg aaatcaagtg caaccatctc ccttagagtc ctctcacgag gtggaggttg 60
 agccatgttc tcagtatgaa aattagtaat tgaatattca gaatcaccaa caacagaata 120
 ctcacaatgc tcaaaatgct cacaatgcat agaatgatca ggatgcacac tatgcctaac 180
 taatctatga aagggttctat ctatttcagg atcaaagggg tgtaaatacac ctggattgcc 240
 cctagtcatg caccatatgc agcaaataat gtgttctcaa acaagcacct aacaaggggg 300
 taaaactaca actatagtca aaagatatcc aagtaagttg aaattttgtg agcaacaccc 360
 taaaataatg aaaagatagc acaaaaaatt tcaaacaaaa attaaaagta aaactatgaa 420
 aactaccta gcaaagttta gaaaaataag acaataatac ttaaaaaata aaaaaagaac 480
 ttagtaaatg actgattttt cgagtttggg agacccaac cagctaaagc ggggtgcccc 540
 aatatgggca acttnttttc tacctcaaat gcatatataa taatagtcac tctgatac 598

<210> 4892

<211> 543
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4892

taggctaaac tttcataagc tatttaagct aagtctagtc caacaagaat gatttgagga 60
 tgaagcttag ttttaagttag tctaaaccta ggagggctgt ctatattgag cctagtccaa 120
 caatagggat ctgaggaaga agcttggatt gattcattcc aattggggat cgagggttag 180
 taatttaggc tacaacatag aacacaaaag catgattgat tagagaaaca tccttatatg 240
 catcagctgg tctgctagaa agaccaaca cttctaccta ttgctatcaa ttttacttac 300
 ttacatTTTT actgtTTTTa tcctagacat agtttaattc tactttaaac catcaattat 360
 caatgtttct ttcaacaatg ccttatttct gaatttaacc cagtcttaga ctagtttcat 420
 tgagttcgat actcagattc atccatttta atttttaaat acttgacgat ccggtgcgct 480
 ttctggaaaa tcgggttttc cttgaatata nttgtacgaa gaaaaagtgg aacaaaaagt 540
 aac 543

<210> 4893
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 4893

aaccgaattc aaaaatgcc aaatgatgaa cctaaggetg gcaactccta aattccccta 60
 atattgcttt tgaaatgggg ggggggaaaa atggacacta aactttaatg accattattg 120
 tcaatgcgga aagtattctg tgctttacta ttcatgttca cacattattg ccgcttatgg 180
 ttacgtgagc ctgaactact accaatatat aaatgttggt taccccaatg agcacatctt 240
 aaaagcttac t 251

<210> 4894
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 4894

tggaatgatc tgcaaaagct aaacccttct tgctggacaa tgtctgcttt taaagtaaac 60

acaaagtgtg atttgcaagt aaataacatg tataaagcat tcaataatgt aataatgtag 120
 tacagacata agccaattat tacactattg gaggggaattc aattttacat aagttctaga 180
 attgtgaagt tgaggactac cttgatgaag tatgaggggt caatctgtcc taaaattaag 240
 caaatcatgg aaaagaataa aaaagcatgt gaaccatggc gggcacattg gtgtgggtgat 300
 gataatctgt ttttgtttga agtgtcaaaa ggcatggaaa aatatgttgt caatcttaaa 360
 caataaacat gttcttgtac aaagtgggag tgtactggaa ttccatgcac tcattccata 420
 acatgcatgt ggatcaatg 439

<210> 4895
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 4895
 tctttgagaa aactgccttg agaagctaga gcttatctac atacacctct ctaatagcta 60
 agcgcacctg cttgagatga gaagctagag cttagctaca caccacctat aatagctaag 120
 ctcaccccca ttccaaaaat acatgaaaat acagaaaaaa gtccctacta caaagacttc 180
 tcaaaatgcc ctgaaataca aggctaaaac cctatactac tagaatggcc agaatacaag 240
 gcccaaaaga aggaagaacc aattctaata tctacaaaga agagaggacc caaccttgggt 300
 ccatgggctc aaaaatctac cctgggggttc atgagaaccc gaaggccttc tttagcagtt 360
 ctagcccaat cctcttggag tcttgtatcc aataccctta gggggtagga ttgcatcact 420
 taccacctat ttaccaaaac taaccgcaga ctgtaagttc taccaacaag ttacat 476

<210> 4896
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 4896
 ttcgagaaat tcaaatgggc aaaacttttc aactgtagt cctattcatg cgcataatat 60
 atcgaaacgc tcgaaattga acatcggaag ctctcgataa attcacatgg tcataactct 120
 taactcggat gtctgatctt ggcgcataat atatcgagac gctcgacatt gaacatcaga 180
 agctctcatt ggtcatatac ggtcactcgg gggtgataaa aaagcgcatt atatacct 238

<210> 4897
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 4897

tgtaggatta tggggtaccc atcgcatgtg gtactatgtg gcggtcgggc gatggtgcac 60
 aacaaatddd ccacatccca taaatcgcg ataaaccac catccctgt tgccacctc 120
 caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac atcgggcccc 180
 catcaatcct cccaagcttc cccaacatcc aagtaattca acattcaaac agcacaaact 240
 atcacagcca agaaaacagg gcaaaggcag aaaactctgc ccaaacacc aacaaaaatc 300
 acagcttdttt ctactttaa gacccagta acatttcctt tgttccaatt cgtaaccgt 360
 tggatcgact cgaaactddd actggaagtc tctagtacat aaaatctaca ttttgaccgt 420
 tgggatctac taacaaacat ccagaactca ttctgaatta ctctttccac aaccagcaaa 480
 tacatagaat ttttctgcac ttatgcaaaa t 511

<210> 4898
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 4898

tgttatgtat ttctgtctgg aaaggtctct acgagtgcct agatgaagtt tctgtggact 60
 catctgggta catatcccat attgaaagg gtatggagggt tctatttact ctattgccag 120
 tggttcaatc ttctggaagt gtatcatctg cggaatgaag ttctgtagag gaatggctctg 180
 aagctgtaag atgcttacgg aaggctccgc agatttggct attggatttt cttaagggtat 240
 ggtatgcata cacattacac tacatgatat attttactgt atctcttctt catcatcatc 300
 aataacaaca acaacaacaa tcatctttda ctatacgtga tcatttctgt tgtttgggtac 360
 cttcattatg ttgattdttt gttgtttact ttaagctaatt cctccttggc gttgattcaa 420
 attgattgag gtcaagcttg tttattagat acaaattgtc tgtttaaacc ctgtgcgtga 480
 ccaaagcttg ccgttgtaat cacac 505

<210> 4899
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4899

tgccgcccag ctcgcccagg cgagctccgc tcgtcccggc gagctaaggt tgcttcctcc 60
 anaaacaata accttctgga agaattcttct tggaggccca agagggcctg gttgctatatt 120
 gcacccccat ttttgctaag tacaccccc tgcctttttt tgggtgatact tttttcgtaa 180
 agctacgaaa acttacgaat ttcgcaacga tacttgaatt ctttccgtaa agttaccgaa 240
 acttggggat tacataatta tccccttttt gacttacagg atcgtaacaga acctcactaa 300
 ttgggcaacg acgcttccgt ttaatatata ccgtg 335

<210> 4900
 <211> 541
 <212> DNA
 <213> Glycine max

<400> 4900

tcttgaacgt gatcaatata ttcatctgga cagaataaag gatgaagacg tggttcatga 60
 tagacaacac ctagaaaata aaccggtaca gacttccact gctcgatttt gtttgggtga 120
 caccgactgg gatgacattc tctaccggtt ttgcatatgt ggagggtgaa cacgttaata 180
 atttgggttg ggctttacaa cgcttctgag gccttttttt aaagcgtgat gccctccctg 240
 gagttatttc cactaacaga gaccaaacat tgatgaatgc agtgaagact gtattccctg 300
 tctgtacaaa tttgttgtgc agctttcaca taaacaagaa tgtgaaggcc aaacgtaaat 360
 cattaatttc gcaaaaaaat gcttgggatt atgtcatgga ttgttgggga tgtctgactg 420
 attgtccttc aaaacaacag tttgatgaat gcctgaagaa gtcaaaatgg cttgcgcacc 480
 ttggccaatg ttggtgacta tggttaagaaa catggatata tcacacaaga aaattttttt 540
 t 541

<210> 4901
 <211> 621
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4901

tgccctgaag aggtccagga aggacaaggc agccgaagga actaattccg ctccggagta 60
 tgatagtcac cgctttaaga gtgctgtaca ccaacagcgc ttcgaggcca tcaaaggatg 120
 gtcgtttctc cgggagcgac gcgccagct cagggacgac gagtatactg atttccagga 180
 ggaaataggg cgccggcggg gggcatcact ggttactccc atggccaagt ttgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgggta aggggtcagt ggatcccgtt tgatgccgac gctatcggcc aactcctang 360
 atatccgttg gtgttggaag agggccccga atgtgagtat ggccagaaga agaaccgctc 420
 tgaccgggtc catgaggaag ccatcgcccc acttctatgt ttaccgagac aagattttcc 480
 cggactgctg caggggaggcg agtgcaaatac attcccacca acataaccac cctgacocaa 540
 tattgatgac cttgcttctt agctaactcc tgcccaccaa tcataatttc caccttcccc 600
 tgccgaattg ccacattttt t 621

<210> 4902
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 4902

cttttgagct cattccttta cttgcacata agaaagcaag tgtccttaag tgcccaaact 60
 cttctaacat ctgctccaat tcctcctgaa aaagagatgt atttcacacc gtcatttttc 120
 atgcaacccc caggtaatta ccattatgtc atgcaaccaa aattttcttt aaagagcacc 180
 atggatttaa aaaagggaat ttttttcatt ttctgtata tgcttggtgct tgacattcaa 240
 agaaagtac gttttgggtt ttcatgttta ttttgctgct gaagctattc tttttctcag 300
 aacttcaaat attatcattt cacgaaaaag aaa 333

<210> 4903
 <211> 503
 <212> DNA
 <213> Glycine max

<400> 4903

ttactatgca aggaataacc aaggaaaatt ctttcatttg acttagcatc aaactttcct 60

aagttttctt ttccattgtt taatacaaaa catttgcaac caaaaacatg aagatgcgag 120
atgtttgggtt tcctgccatt gaacagttca tatggagttt tctttaaaat ggggtcttatt 180
aaatccctat tcatgatata gcatgcagta ttaacggctt cagtccaaaa atattttgga 240
agaagagtgt catttaataa ggttctaaca atttcttcca aagacctatt tctcctttca 300
acaactccat tttgttgagg agttctacgt gcagaaaagt tatgttcaat gccatgctta 360
ccacaaaata attcaaattc tttttttcaa attcaccccc ataatcactc ctaatagata 420
taattttgag atttttattg tcttgaatga tttatgctag tttcctaaat acttgaaatg 480
catcattctt atgagtgata aat 503

<210> 4904
<211> 169
<212> DNA
<213> Glycine max

<400> 4904

tatccgtgac gaaattgaat ttctttttct taattgtcta ggggtctactc acatgctcca 60
tttgggggttc tgtgggggtcc tataaaccat gcgccagaac gataagtcta atgaacacca 120
atgccaaaaa taggccattg ttgtttatta atctcaaaca tttgtctat 169

<210> 4905
<211> 511
<212> DNA
<213> Glycine max

<400> 4905

tgagggaaaa cttgatgcct tgggtcaacct aataactcag cttggcatga atcataaatt 60
tgcacctgtt acaagagtct gtggtatatg ttcttctgca gatcaccata cagatctttg 120
tgcttctttg cagtgatctg gagtcaatga acaacctgaa gcttatgctg cctacattta 180
taatagaccc cctcacagca aaaccaacat tagcgaacta attatgatct tccaagctac 240
agataacaatc cacgttgagg aaatcattca aatatgagat gggcaagtgc ttcacaacaa 300
caacagtctg tccctccttt ccagaatgtt gctgggtcaa gcaaaccata tgttctctct 360
ccaatacagc agcaacaacg acaacagtca caacgaagac gacaagcaac tgagacttct 420
ccttaacctt ccttagaaga gttagtgagg catatgacca tccagaatat gcaatttcag 480

catgagacaa gagccttcat tcagagtctg a 511

<210> 4906
<211> 570
<212> DNA
<213> Glycine max

<400> 4906

tcagctgcag caattaccct gccagaaata aggtttcccc cactattctg tgtattattc 60
tccaaagaaa ggtctttcca gaagccggat gaataatttc tagctaggat gcgccaaata 120
tgcacagctt ttgagctcat tcctttactt gcacataaga aggcaagtgt ccttaggtgc 180
ccagactctt ctaacatctg ctccaattcc tcctgaaaaa gagatgtatt tcacacggtc 240
atTTTTcagg caacccccag gtaattacca ttatgtcatg caaccaaagt tttctttaag 300
gagcagcatg gatttaaaaa aggggaatttt tttcattttc ctgtatatgc ttgtgcttga 360
cattcaaaga aggttaggtt ttgggttttc atgtttattt tgctgctgag gctattctct 420
ttctgcagag cttcaatatg atcatatcag gaaaaggaaa aaagtatttc tcaaactctac 480
atagaaataa tgggtataat tcaattcacg acatatttat tttacagtat taattatgaa 540
aatgtattg aaattacttc attcaataac 570

<210> 4907
<211> 546
<212> DNA
<213> Glycine max

<400> 4907

ttttctctt gacttcatct cttattttca tttttttaa acaaatttag ccaaaataac 60
cactacagac acattacca aaagctggca gcaaatcaa tgacgaaaaa agaagctgag 120
acacagtgcc agttgctgct tatcaatccc aaattttttt caatttaact tataaaataa 180
ttattataaa aattaataga tttttttata tatgataatt tttttattaa ataacaataa 240
caatataatt ggtataaata ttattcattt attaaatttt agttggagag aataaaagta 300
tcataagttt gtaagtcatt cacattcatt ataaaaatat atataaatat aaaaaataat 360
ataatttact aataaatcca aagatttcct tttaatccaa acccaaagac taaatgtata 420
taaatttata tgcaaactca ttcaaaagat tgatttttgt taaagttttt atcattaata 480

atcataaaaa aatttagcat aacttataaa taattttaca attaaaataa ttttaaaaaa 540

tatata 546

<210> 4908
<211> 358
<212> DNA
<213> Glycine max

<400> 4908

tgctgtccg atgcagtagt aatgatggcc cgagttatgt tggggaacgg ttacgaaccc 60

ggaatgggtt tagggaaaga caacggcggc atgactaacc tgataaatgc caaaggaaat 120

cgtgggaagt atggtttagg ctataaaccc actcaggcgg atataaagag aagcatcgtg 180

ggaagaaaga gcggtggtca aagctcgcgg ttgaggcaag aaagtgaagg aagcccggcc 240

tgccacataa gtagaagctt tataagcgcg ggtctgggag acgaaggta aatggtcgcg 300

atataccaaa atgatgttcc gagtacattg gatttggtac gaccatgcc tcctgatt 358

<210> 4909
<211> 343
<212> DNA
<213> Glycine max

<400> 4909

tgtcacagtt ctgccatcat tgggtggtgac ttgaaaagag gggattgtcc attgaggtat 60

gagtttttat gatttactgg tgtgtttata aattactgca ttttgttgtt tttatgattt 120

ttcacttcct actacttttg ggtttgatgt tgtgataact atcttaagga ttacattaca 180

gctaagagtg gatttgattg ctgatcaaac aaaaaggta tttgatagga tcctaacaaa 240

gttaggttgt actgtccac cagttcctag attttgcag caaaaaggag gtaagaagct 300

gcatttttta taccatgcac tttcatacct tacgtgtgta tgg 343

<210> 4910
<211> 792
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4910

tggctgaccc aatgaaccct ggacaccgcg gnnaattnag aggcgcgtta ttgttccgcc 60
 ccaattgaag ttctccagga gtaatttggc actattcaac ccccaaaggg ctctctgggg 120
 ccttttgaac catttgtaaa ttagtatgcc ccaaatttac ccccttgggtg aaacctatta 180
 cccatttgaa catttgtaag cattccgtgc ttaagtgcc aaatctcttt atatgtggtc 240
 ccttatttga gcttccagag agaattttta accgtttttt ttcgcaaacc ctccgtagtt 300
 caccattttg gcatgccacc aaaattttcc ttcaagagca gcatggattt gaaaagagga 360
 aaatctttta atttcctgaa aggcttgtgc gtgaaattca agaacgctaa gttttgggtt 420
 ccacgtttat ttgccgcgg aagggtttat gtctctgcag agctttcaaa agatcctatc 480
 aagaaaaagc aaaagccttt tctcaaattc tcataaaaat aatgggtgta atttaattta 540
 cgacatattt attttccgga gtaattttag aaatgtattg gaatacctta attccataac 600
 ccaatacatc actggttgaa atatttggca gtcactgttc atttggttaa agactttctc 660
 ttatcagaat aaacattccg tattttgctt ggacaaataa tctccacttc agctacaagg 720
 aacctataca ttatcatgtt agcactatct tgaaagcggt taaaccgacc atctaatoa 780
 taatttcact cg 792

<210> 4911
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 4911

tgcacaaaaa gtaactaaat attttttttt acaaaatgaa gtaactaact aactaaattc 60
 cactaataat atagagtga tactctaaag gaagggatag gccttgatta agcccatcta 120
 atcttectoaa ttaactaat tacacaaaac aaagcccaaa ctcacaaccc aattattcaa 180
 gtgactgaat tggccaagct taatttgacc ctggaaattg ctgaattggc caaagcttat 240
 ttgtaaaaaa attgaatata tttttgtag acttccaagg acaactcaca tgctccattt 300
 ggagatctgt agtatcctct agaccctgca ctacgcagat aggtcaagta agaacaaaat 360
 ccaaaaatta gctacaattc ttaattaagc tcaatcattt gcctaagacc aaaactgagt 420
 taagggtgaaa aat 433

<210> 4912

<211> 435
 <212> DNA
 <213> Glycine max

<400> 4912

agcttttttcg gagccatctc ctgcaagaga taaatattca cgaagtcagt ttacccagaa 60
 ttttcatctt ataaccaaga ccaaacaaca ggggggtacc actttttctg aaatgcaa 120
 gtcaatgtga atttgggcaa acccccatatc attcaaagca ttagctacct aaatcacaca 180
 cacacattta taaagtattt tggctacctt aagatcacat acatgcattc cacagtatgt 240
 cggctacttt gaaagattgc atatcttgaa aggcacttaa actaaattaa caacgtattt 300
 ttgtcaccgc tgtaataca ataaaaaagt atattggctt gctaccacgc aatatataca 360
 cctatgatgc cttcttgcta cctaacaagc aattcatatt taatcgaaag aaatattttg 420
 ctaccacac gattg 435

<210> 4913
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4913

tcatgatgaa tcaacaatga ttcaaaagt ttttgatgat atcaatgatg acaacaaaaa 60
 gatgatgaca aaggtgatga acaaaaagca caaaagatca gagaacaact caaatgaatc 120
 aaagaacatc tcaagtgaat caagaacaag tcaagagttc aagaatcaag gagaattcaa 180
 gactcaagaa gaaagcctag aatcaagaat caagaatcaa gaatcaagaa tcaagactca 240
 agatctcaag aatcaagatc aagaatcaag aatgaaggaa agactcaatc aagataagta 300
 ttaaaaaagt tttttccaaa ctttgaatag cacgtgagtt tttgaccaa 350

<210> 4914
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4914

agcttccggca ctgttaaggg taaagactct tcccgtggcc ttcagatgtc cagtntggtc 60
 attcaggccc ctaccattct gctccttctt gggatatgga caatctctct gaatattgtt 120

<213> Glycine max

<400> 4917

ctaagcttta gaaaacatga gcctaacctt ttaattaaat aggtcagttc aagtcagact 60
ttatgtatgt taagtcgtag gccctgtag gccggcctga cctattccca cccctaacaa 120
ttacacgcac tcaaaactta aatcctaaaa cattgcctca aatcctttaa tttgaaaaca 180
accctcgat ttttttatga gacatatcgg aataccactt catcaaccac gccataaacg 240
tataaagcaa ccacaagata aacgcagtgt atttgaaaag ccataagtac ctcaatcaaa 300
atcaatgcac aaattggcaa tgatcttacc aaccaagagt ccagtttcaa aatgaccagc 360
aatgacagcg gaaaaatc 378

<210> 4918

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4918

agctttgagc caatTTTTac gacaataact ttttactcgg atgtctgatt gagtcccttc 60
atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
ttntactcg gatgtctgat tgagtccgt aatatatcga gacgctctaa attgaatgtt 180
gaacctctga gctaattcaa acgacaataa ctttatactc ggatgtctga ttgagtgtcc 240
gaacatatcg agacgctctg aaatgaatgg tgaacctctg agccaattca aacgacaata 300
actttttact cgga 314

<210> 4919

<211> 244

<212> DNA

<213> Glycine max

<400> 4919

tcaacattca atttcgagcg tctcgatata tgacgggact caatcagaca tccgagtaaa 60
aagttattgt cgtttgcatt ggctcagagc ttcaccattc aatttcgagc gtctcgatat 120
atgacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
cttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240

aaaa

244

<210> 4920
<211> 347
<212> DNA
<213> Glycine max

<400> 4920

tcgatcattt tccaatccac atcattcact aattattcag ggattgaata aaataaacia 60
tggccggtgt cggctcgtat atggccccga ctgatattct tcaaccgaca ttgcgcaatt 120
tcttttaaaa aagctggccg ataatgtatt tttaccgtag aggaagattt ttgtttttgg 180
attccctaaa aaatttacga tgtaggtcgg ctagggtttt ccttgcgagc tcaaccagc 240
ttgtgtttcg gacgacactg gcatgttctc atttattagg ccaagaaaac gtttagccac 300
tccggcacca aaaaacatca tcaacggaaa ttgataaaaa aaaatga 347

<210> 4921
<211> 216
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4921

tctatataag ctgaaccatt ntatcaataa acacaagttg agttntattc agaaaattag 60
agttttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgcctcgtt ggaaagagtg 180
attctttcct tcctttcacc ttcacccttg gtcttt 216

<210> 4922
<211> 406
<212> DNA
<213> Glycine max

<400> 4922

agcttgtaga agcaaaaggc cagctatggt gttcaagggt ggatttgaaa aggcctatga 60
ctcaatctca tgggtttttt tggattatat gctgcaaaga atgggttttt gccacaaatg 120
gagacactgg atgtctgcct gtctcaagtc agcaagcatt tctattctta tcaatggcag 180

tctacaaag ggaatttgct cctactatag gtttgaggca aggggatcct ttagccccct 240
 tactctttta ttagttgga gaaggcatca caggattgat gagggaagca gttcataaga 300
 acttatatag aagctatatg gctggaaaga aaaaggaacc cattaatatt ttgcagtatg 360
 cggatgacac aatttttgtg ggtgaggctg agtgggagaa tggttat 406

<210> 4923
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4923

tataagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattang aagcatcaac 60
 aagaatcaag ccaaggctat tctgcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcanat tctcaciaag gtaaactcat cactttcaaa ttgagcttta 180
 aaaactatca tgacatgtag aggaaaatca atgatttcaa atcacaaaat gtcaagaaac 240
 ttttatnttc aaaacaatta cccatttctt gaacatatcc tatnnattaa agaaaacatg 300
 caaatcgaca tgc 313

<210> 4924
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 4924

agcttacaaa tatgttttag atccaagcac atatgtaaaa tcagatcaaa tctagataaa 60
 gatgagataa gatctagatg aaataatata tagatgatat caaatctaaa taatatctag 120
 ataagataag atctaatttt atagaataaa ttagtctgcc ctcttcaagt ccaagcccaa 180
 ttctagattc aagcccaatg cttgattcaa gcccaatgct tcattaattc ctgaaattag 240
 ataaaaacat caaattagct gaatgggtccc aaataataaaa actgcctaataaaaattga 298

<210> 4925
 <211> 221
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4925

tgtgagtatc tacatgagat gaagcataga gggttgcaac ctaatgttgt aacttatagt 60
acctaattga ttcattttgc aaggcangca tgacactgga agcaaataaa tttttttggt 120
gacatgatac atgttgggtct tcaacccaat gaatntacgt atacatctct aattgatgca 180
aatcgtaaaa tacgtgatct caatgaagca ttttatctgg a 221

<210> 4926

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4926

agctnttagg ctgattggct gctttgttca taggagattt ctagccttn ttcatatcta 60
tagtgtgtaa taaaaaggga ccaatagttg tacagtttga catataagaa ataccaagaa 120
aaattatatt ctgattacat gaaaaccctg aatatatcaa aatcatatat tacatattat 180
atataacaac catcaagacc aaaccttgct ctattaggtg gtgctagtta gctacataaa 240
tcaaatatat tcagagtaag gtccctttta attttatatg caacaataag aaacataaga 300
aagaaatatg tntattgtat catgtcaaag ttaagcctag tactaaa 347

<210> 4927

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4927

tgtaggatta tggggtaccc atcacatgtg gtactaggtg ggggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaatgcaca taaaccaca atccccgtt gccacctcc 120
aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa cattcaaaca gcacanacta 240
tcacagccaa gaaaacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
cagcttttcc cacttaaaga cccagtaac atttcccttc gtccaattcg ttaaccgttg 360
gatcgactca naaatntact ggaagtctct agtacataag cctacatt 408

<210> 4928
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4928

atatatctaa tcgaccattg gcactactgt tcctgtgaga gatttggatg gacatgcgtg 60
 tgtgatacgc ttctatatgt gaatcatctg atggcctcta atcaagatga aatgagtgac 120
 cttactgctt ctttttgatt cngcctcacg cgccatttta agactgtgat gctgattttt 180
 caaccgtata atgaccctgt catgagaaga aatccctcac ccttgtacac caagaggagg 240
 atgaatctaa tatattgttt tacgtgctga gaaaaaagct tatatgttcc catgtctgag 300
 tgtctaagat cccaagtaaa gttctaata accataatgt gccttgtcgg tgtatatgac 360
 cgcatagctt tttttgccc ttaacattat tattatcctc catct 405

<210> 4929
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 4929

tctccatctc cttactgtta tctgaaaaag atcttaagca cattagcatc caaaatagaa 60
 gcattctact atgaccaaata ctaacacata gctcaatttc aacctgctgg gattccagtg 120
 tcacaaatct gtaaccacaca aaaatgaagg accttgtatg actcttgaag aacaacacga 180
 tgctcatctg agcattgttt taaccattca taagtgacta ttggattctt catatattca 240
 agcccact 248

<210> 4930
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 4930

agctatgtat ctattacact agtcttgaat tcttattacc caagagatat tcagaagata 60
 actttcaaga gtcacatcta ttccataggt ttatgaatgg cc 102

<210> 4931
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 4931

gagaatgttt ctctcttctt gattttcatc tttttttaca gttatactct atctttttatc 60
 tccattttttt tcattctatt atctcctttc atgctctttc ttttcatcaa tattgctttt 120
 ctctgctatt ctctctcgat ctcttttcac tctcaattta atttgatcct tacaaacctt 180
 acttggaac aaatttgtg 199

<210> 4932
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4932

agctnggaat gaggtttgct aaccatgagt agataatggc tggagagcca gcagctggaa 60
 acttggaaca aatggatgaa gatgttgaag ctgaagctcc ataagagcat gcacatcaat 120
 gagtcctttt gagtcaactca tgattcagaa gatggacgct atgcttcacc tccgtcaata 180
 gcacttagtt gaagttcaca attcgctgga gaacataact acccggtctgg aaaacataga 240
 tactaggctg acccttagca acctcctaaa ccccgatgag gatgaagctt agttatgttt 300
 ttaggtgctt agttcagttg cttatatattt ttgaatgttt gtgtgtcttt gattaagaag 360
 ttaaggtttc taatgatagt ttaatgtttc tatgtattgg tctttaatga atgaaatgct 420
 atggtatttt cccttttcac attatat 447

<210> 4933
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 4933

gtggtaatca gaggacaaga gcttcaagta ggtgctcctt aaacctccat taattttttt 60
 gctttacctt gtcttccatt gttgtttctt cttttttctc catgtatctc ctcacatgtc 120
 ttgttctaaa tgttggttaac atgattcttt aaaatttcca ccgattaaac ttgctataga 180

agttagattt gattttctat ggttcaaatt tcttgggtctt gttcttgaac catgaattct 240
gttgaagtta aggtcctttg aacttttgcc tggatatttt t 281

<210> 4934
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4934

agcttgcttc agagaggtcc aagaaggata atgcggccga agggactagt tccgctcctg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagta gcgcttcgag gccatcaagg 120
gatggtcgtt tcgacgggag cgacgcgtcc aactcagggg cgacgagtat actgatttcc 180
aggaggagat agggcaccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240
cacaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgaggtcctg ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc 360
tangatatcc gttggtgttg ga 382

<210> 4935
<211> 260
<212> DNA
<213> Glycine max

<400> 4935

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggaagag ccttggattt gaagacaaat ccttttcaag gagggagtga 180
tgaggacata accaagggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240
acttaaacaa gcccaacaca 260

<210> 4936
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4936

gttggtacac ccaggggaata cagtttttcac tacattcatc aacgtaggt ctctatcggt 300
 aacaataact ccaaggagga catcacatct tagaaaaaga cattgaaacc gttctagaga 360
 tcanaccata ttattt 376

<210> 4939
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4939

ntgtggcact ctgttacaca cgtcagccct ccatgtcagt cctggcacag gagcacatat 60
 atcatgccct tagcaattgg actctcaact gacagggttat ctctaaccat ttatattatt 120
 tgaatatatt gcaatctcct tatcacgtgg caggtattca attatctcta agctacacat 180
 tatctataag ccataattat ttacttgtca ttacctacaa gtcggtaatt atcttgtaag 240
 gttgttacia caccgtaata gccctacaa acaatctcct gcaacttcta ctctactcta 300
 taagtatcag gtttcatctc actcttttca tactcattca ttactct 347

<210> 4940
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4940

tcttctgac actactaaca tcatcatttt aacgtctatt ntatcataac ctatgttaaa 60
 ataagtgtgg tgatatattt gtaaataaat tgagttcgtt aatgtcattt tttcaaagaa 120
 ccaatgtttt gtgtcgatgt taacatcggg tttttttttt ataaaaatca atgttgtttg 180
 atgctcggtt acattagctt ttatagaaat cgatgttggtg ttttttctta aattaaaaaa 240
 acccaatcta tttcactttc ttgttcttgc gctcactctc accactctcc ctcttatcta 300
 aaacctctc attgctcta 319

<210> 4941
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4941

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ntgatgtcta tataaagctc anagatgttt gtcatagaagt tgtcgaatca ctagagaatc 60
atctgagtca aaatgaacaa agtgttgtaa tgctgtcagt ttagttggac gacaaaaact 120
tgagtgaatt gagtgaatct tagctctgct aagcagcaag tttccattgt atccgagctt 180
attgtgtaaa cattccttga gtgattagaa tacatattct atcaaacatc tatttttgtg 240
aaagccagga gtgacttcat gacaaaaaat acttgggtct taatctcatg gggagattaa 300
gggtagagtc agaaatgacc tagagattac ttgtagccag aagtgcata gagaatactt 360
ggttgtaatc aaagttttga ttagtggaac ctttcaagtt ttg 403
```

<210> 4942
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4942

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agcttaaggg ttgatattc tagtgtaact tatctctcta ttatgttaaa ataagagcgc 60
acgcttattc taatgtaata acgagatgtt cggattaagc aaattctgga agttacatgg 120
aagttactaa agcttccatc aacggtaatt tttaaaaaaa aataacttcc atcatccgcc 180
aaaaaccacc ttttctttga tcataaataa ttattctggt tcacaaagca taacgggtga 240
caaaacatac aagacaaaaa caaaactctt gaattataat cttctgattn tatccgattg 300
aacaattttg attgaacccc gaaatttgat tcaatctgaa agtgggtatac acgacttcag 360
aattatccag ta 372
```

<210> 4943
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4943

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cgagtcacgc cnnnatgag acgcctgtca ttagatgac gctagcatat acgtgacact 60
atagactaca tcgagactgt gaccttgagc cagtcgttga gaagatatat atatcgagac 120
aagcgggtact gagatttact tgcactgggtg agaatcatgt ttgagccacc aatcatgagt 180
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tatgaactca tctttgaatg atgcatattg cagactcttt tatacatcga ctctcacaca 240
tctttgaagg aatgtttcaa gatctatcca cagacattgc tgatgcatca ctctatagct 300
ctctgaacag atgctatcaa caccttcttt tacacagaat gtactctagg cacggacttg 360
tgttatctag tcttttcaat cactgatgct ctggcgaaaa acgacagact aaccggctga 420
agctttttga cactcttctt ctttgccaaa ggaccacaaa ctgtggaagc caagctcata 480
atgaatcacc atggatcaaa cgtgtgttga tgataaccaa gaagg 525

<210> 4944
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4944

agcttagttc gaggtactta cccattgaag attgaagaac gatgaagaac gaatgaagaa 60
cgtcgaaaaa ccgtcgaaac ctttgcgaaa ttccttacgg gaacgtttcg gaagcgcttc 120
ggcttagatt ttcttcacgg aaaccatttt tccaagccaa ttcgaaagag agagaagtgc 180
ctaaggggct gaaccctttt ttacttcact tctcccccta tttatagaaa attgggggag 240
aagcttgcac ccagctcgcc caggcgagca tgggtgcttc ctccagaagc aacagccttc 300
tgaggagaatc ttctggaggg cccaagtggg cctggtttct atttgcaccc ccatttttac 360
taagtacacc cccctggcct tttttggtga ttctttnttc gttaaagt 407

<210> 4945
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4945

tctcaggagg tgagcttagt tnttagatgg gtgtgtgtag ctaaactcta gcttctcaag 60
gaagttttct caaagaagct tctcaaggaa gttttcttaa gaaagcttct caaggaagtt 120
ttcttaagaa agcttttcaa ggaagctacc tagtctataa atagaagcat gtgtaacact 180
tattgtaact ntgatgaatg agagtcttgt gagacacaaac tcaaagttca acttctctcc 240
ctttntcttc cttcaatttc gtgctcccc ctctctcttt ctctcccttt ttcttttctt 300

tcattgaagc catctctcca acctctttat cagtctcatc ttgtggtgaa gctccttctt 360
ca 362

<210> 4946
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4946

agcttcgtat canatgacac agaaagcgtg tttctgcttt gcgcatggga gatgttcggg 60
tgacaccttg catgcacgaa ttttttctact aaaatcgata attttacaaa actatgtatc 120
agtatcgata atttaaaaaa ttatttacgt gtaaggggtga tttttgccac tccaaaatct 180
tagttgataa aaaatactct cattataggt aaataatttt caaaatacc atattggtaa 240
ataatttaca aaattatcca ttttagtaaa aaaaaaatag tgggtgcatgc acctttgaaa 300
tgcaatagaa attatgagag taaagattta ttagaaagcg tgttttatca nactttaatg 360
actaacacag acaatataac tctcttcaaa cttat 395

<210> 4947
<211> 295
<212> DNA
<213> Glycine max

<400> 4947

tttgagctag agtgtgatgc ctctgggtgta ggtgtgggag ttgtgttatg gtaggggtgga 60
caccctatta cttaatttag tgagaaactt catggtgccg ctcttaacta ccccatatat 120
gataaggagc tttatgcctt agttagagcc ctccaaactt gggaacatta cettgtttcc 180
aaggagtttg ttattcatag tgatcatgaa tcacttaagt acattagagg acaatgcaag 240
ttaaacaaga ggcattgcaaa atgggtagag ttccaagagc aattttctata tgtta 295

<210> 4948
<211> 434
<212> DNA
<213> Glycine max

<400> 4948

agcttaaggt cactttacaa tacacggtcc ttcaagcaag taagatgttt catcttctat 60
tcatttggtg gactttatac ttcaaggtat tatcttttta tttttttggg atagtcatta 120
ttattatgtg gtaagagttt atacaagtct agtttactta ataaggggtc aattgatgga 180
ttacccaaac tagtaagcca cctactttgt aaaccattac cattaataaa gttatgtgtc 240
ttcttaaaaag tttcacataa tttgttcatt ttaattttga ctatttatga gaagggtgtt 300
ttaccattta taatgagaca atagtcaata tttatttata acatttctat ataaaaataa 360
atctttcact aaatacattt cttctttctc tttatgtgtg tatgtgtatg tgtaattaac 420
atacatttag tgat 434

<210> 4949
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4949

taacattggt ctgtgacctg agttccaaat aagatttctca ttcttaacag gattatttta 60
tgctgtgaat tactcccagg acttggtgt caatgatagt agcatgtata aacactcgga 120
tgaaaagcta aaatcactta gaatgtgttt gngttgcatt ttcattttct gtttttattt 180
tcacaagatt agaattataa aaatatgttt ggtttgactt cttgttttct gctttcaaga 240
aataaaaaca ctgaaatgcg ttttcaaaaa gaaatgtatn tttatatattg cttaaaatta 300
cattccttgt caccgcgttt tcatgttatc caaaatgagg tgtctaagtt caactgaaac 360
actgaaaacg agatttatta tttcagtttt tgttcgggtga gaaaaatttt actgaaatgt 420
ttcaaaatca 430

<210> 4950
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4950

agcttatggc ttctcagtaa aacactacgg cgcttgcatc ctcataagtt ttaggcagat 60
atgatatttt aaaaaaagtt tatgagatcc attcattgca aaaaggatgt attatgcatg 120

gtgatatcat gattttggat agtaattaat tataactcat tatttagagt aaattaatgc 180
gacctcctat tttttaatat ccttaactaa aacaactgta tcaattaaag atataagtgg 240
ttaattaagg aatgaggang gcgnataata aagagagaca gagagaaaaa ttgttgatga 300

<210> 4951
<211> 244
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4951

tgagctgtaa ggtgatggcc tagaaagagt ttagtctcta ataaaccttt gaggttgagg 60
taaggcatan gatangtcca tcatatctta tgcttgaatg caatttggtc canataatgg 120
ggcattatat tatcaagcat ggaactccat gtcagtttgt caaagagtat tcaatatcat 180
gttgagtaac catcaccaaa aagtttaaca ctatcaagta catgaacata acgatcagtc 240
gcaa 244

<210> 4952
<211> 287
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4952

agctngtcca atgaggtgac aatgaaaata cctagtgtta ctacctgata tacagttttt 60
gctgctcggt ttattgtcaa ttccaactgc atcgatgcat ctttaacaag caggtaccac 120
gaaccagagc agcaaccaag ttgaccttct ttaaactcta aaataccata aaaaacaagg 180
tatgtaaaat gtgcaactag tcagatatta atcagatcct tcttaaacca taaattaaga 240
cattttccac agcaagccca ggaaggcatt tcaatggcta aaaaatt 287

<210> 4953
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4953

actctagtct cgctctcaac aactgcaaaa tcaagtggaa tattgttcct actacaatct 60

tgtccgatgg gagttaacaa agtaccatgg tatttgccag ttaagaatgt cccatctaata 120
 tgcacaagtg gcttgcaata tttgaagcct tcaatgcatg gattaaagtt gtgtgttcat 180
 ggtttgggga ttaaggcttg aggttttagga tttagagttt actgatactt gaggtaaaagt 240
 tgtgtgttag gatttacgat acaatgagaa agatatttgg actattaatg agatatttaa 300
 tcaaatggac ttattagata taaatagga aagaaggata tganatattc tctactatat 360
 tatgaccttt 370

<210> 4954
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4954

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 gagaaggcaa atagatataa gtgacagcct ctgtcctttc tgcagtatta aggaggaaac 120
 tgcattctcat ctcttttttg actgcagcaa aacacagcat ctttgggtggg aatccctatc 180
 atggatagga acttcggggg cataccctat aaatcctacg caccactttt tgcagcacia 240
 caatgggatg aatgggtggga agaaatacaa tagatggaag tgttgatggg ttgctctana 300
 ttggtccatt tggcagcata ngaataaggt tattattatc aatgctccat tcaacggcag 360
 tatgttgctg gaagatgcac tatattnggc atggacatg 399

<210> 4955
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 4955

gaaagttagt tctaccagtg ggacactact cttaaaacaa aaatggcata caacctctc 60
 ccataaatac aaacatcaat gttaaatttag agcaagctta tgcgcatatt tccttacgaa 120
 cgttcacttg cacaagacat cctattaact aagaaaaatg cacccatata caatcaaggt 180
 agcttcatta cctagattat ttacatgtac ttccaagggt tatttggttat tacatcacac 240
 acgactcctt ggctgaattt acatacatgc atactcaaag cattttggggg tacccaaa 298

<210> 4956
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4956

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 agcccagttc tgtacttgga tcatggaatg tgtttcttcc acttccttta gtgtggcagt 120
 caatggatcc atttatgggc acttcaaagg gcagcgggggt cttagacaag gggatcttct 180
 ctcccccttat ctgtttgtgc tctgtttgga gtacttttcc agagatatga gcagcctcaa 240
 ggaagatgcc aattntaaat ttcaccccaa ctgtgcaagt attcagctat ctcatattggc 300
 ttttgcagat gatattatgc ttttatctag aggagatatc ctttctgtgt caactaatgt 360
 tgccaagctt caacacttct 380

<210> 4957
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4957

tgtacacatg ctaaggtttc tccttatcctt caaatctatg tggctgcttc acataaacct 60
 cttcatttat gaatccattt ataaatgcac tcttgacatc catctgatat agtttaaatgt 120
 ctttgtgtgc tgcataggct aagagtattc tgacagcttc aagtcttgct actggtgcaa 180
 aggtttcatc aaagtcaatc ccttctttgt tgattgtacc catgagcaac tagtctagcc 240
 ttattcctaa ccacttctcc tttttcattg agcttgtttt tgaataccta cttagttcca 300
 atcaccgact aaatcttatg agggggaaca tgattttaga ccttgatcta acgaactggc 360
 tggttcttct tcat 374

<210> 4958
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4958

agctntgatc taccaccacc gccgccacca tcatcatagt tntctattat ttaatattac 60
tagtactttg atttccagcc atgtatttgg ctatattatt atgatatttg aacaatttac 120
tatttcttta tttgcatggg atgtttgaac aaaaattaat tatgttattt gaactatgtg 180
gttttatata tttgatctat tcatggttct tgcttcatga tttggtttat acttttccat 240
gaatgttgtg tggatgctta gttgtatttg aatgcttcaa acttggtaca cactttggct 300
ttttgttgat gccaaagggg gagagaaata gggattaaat caataactca catgagtaat 360
caacttaatt ttaagagaag cataaatttc aaaacaaagg gggagaat 408

<210> 4959
<211> 357
<212> DNA
<213> Glycine max

<400> 4959

tgtagaatgg ctagacatga tacatgtcgg ggcttggttt ggtgtaaggg taaaatggat 60
gccccacatt atttccatga cacaaatgca gaaatgatga tttggagact atatgcagaa 120
ctggtcatgc atgcatctat gccgacactc aaatgtcaaa tctttatggg catgtgatgc 180
tagggctcgg gattcatttc ctctatatta atcaacccaa cgttaccaa atatgttctt 240
ttatcaattt gtacattcat ccgagtccat tttgggcgtt cgggaaaatc ttacagcatt 300
cacccttcat gtgtagacac atgttgcaaa aactagttat gatcagtga ttttttc 357

<210> 4960
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4960

tataagcgcg ggtctgggag acaaagtca agtggtcgcg atatgcgaag atgatgttcc 60
gagtactttg gatttgggtac gaccatgccc ttctgaattt caactgggaa aatggcgagt 120
ggaaaaaccc ccccgccctt acgccaccag cctatatgta acctttacgg gtgtaaaagc 180
tctataattg ggcttaggct ttagaagttt tccttttggg aagctttgtg tcttttgggt 240
ntgaatttat aatacaagga tctttcttca tctgttecta cgtctctacc cattctcatt 300
catttgcattg tttacttctt tttctgaaa 329

<210> 4961
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4961

tggactgtgc tannggagaa aacaaatgac caaagtgaac catgagccat ttctatggca 60
 aaattgggtg ttgaagagtc aaatattgat tcggcggaat tttaggtgta aatccagttt 120
 gagcaagttt agattgatgt tatagacttg tgtgaagtga gagtttgctc caaatattacc 180
 tcattctcaa tttcactttt caaacctaaa aaacccattg aattgagggg ttttggacac 240
 ctacattctg tgttgctgtg ctttaaagct tgacttcngc ttangcatga ttgatacatg 300
 atttgggagt tgtangaatt gatttgggca agattggatg agaggaagtg tgattttcga 360
 aatatgcact tat 373

<210> 4962
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4962

agctgcatga ttatattctc gccctttgtc tagcatattc cttnttatat catcaaaacc 60
 tgcatagaatt acattctccc cttttttgat gatgacgagc attatccaat gcttgatctt 120
 tttgacatca tcaaaatctt catgatttac attctcccc tttttgatga tgataaccac 180
 ctataagtta ggagcaacaa ccaagaaaaa atatctattt gcatatagtg tactccccct 240
 tggttttgga atgtttgctt atatgagaca attgaagatt atatactttt catatataaa 300
 aagttgtctc atacagaata gaccattttc cttctatttt agctt 345

<210> 4963
 <211> 232
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4963

tgagatgagg aagtgttgaa gggtgaaact tcctgcnttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
ccaaaaccaa tcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gtccttgga gtcaacagat aaaaggaaaa ca 232

<210> 4964
<211> 398
<212> DNA
<213> Glycine max

<400> 4964

agcttcaccc aaacctatgg tattgattac tcataaactt ttgttcctgt tgcaaaactt 60
aacaccatta gagtcctctt ataattggct gcaaatttag attggccatt acagcaactt 120
gacgtaaaga atgtcttttt aaatggggac ttagaggagg aagtctacat ggactcacct 180
tctggttttg aatctcagtt caatcaaaag atttgcaagc ttcaaaagtc tctctatggc 240
ttgaaacagt cacctatagc atggtttgag agatttgccc agtttattaa gaagctggga 300
tattctcagt gtcagagtga tcacaccttg cttgtgaaac actcttttga aggaaagatg 360
gttgatttaa ttgtctatgt ggatgatatt ataattac 398

<210> 4965
<211> 248
<212> DNA
<213> Glycine max

<400> 4965

tggatttga ccttgtcatt ggacccttca actcatgaag tgcttttacg ttcttgtgct 60
ttttggatat ccctctatca tcccctcctt cttgaaaaga atctgtcctt ggataatgct 120
cttgggatag ccctttatca tccgctcctt ctttagaaga acctatcctc atatgtgcat 180
gcaagacacc tacatcacia gaagaaagat caataacatt tgaagttgaa ctaaccccg 240
gcttactt 248

<210> 4966
<211> 68
<212> DNA
<213> Glycine max

<400> 4966

gcttatttaa ttttaacttt tatttgatgg agaataattaa tttggcacga atagtaatga 60
tatttcag 68

<210> 4967

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4967

tgtcaataca ttggatcaca aaatcaatgg tcgaatttca aaatcaccga ctgaactgat 60
cactcgatat tgtagtgtta taaataatth tttgtatatt tatataatat acatattata 120
aacataatat ttgtcaatat tgttacaaga ataacctcca tcttagtgta aggtgtgctt 180
gtgtcagttg ctgacgatag atttgagcct tgatatgttg ctttttgta atttattcca 240
ttaaatacga atatcttatt ataaatatca catttgtcaa tgctaaaaaa taaaaaggct 300
ccagggtagt ggtaagactt ngttatctcc catcactgga gatatatga tacctatcat 360
tccacaacaa ataaaaaat tccttcctac cactntactt gatg 404

<210> 4968

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4968

tggacgtgac caatgaaccg tgcatttgag gcctgtana tctcacctt ggaataggct 60
ccacatgata catggcaggg cctggatngg ttcagaggta acatggatgc cccacagtat 120
tttcatgact ccaaagcaca aatgatcatt tggatactat atgcggaact ggacattcat 180
gcctttttgc ccacactcat atgtcaaagc tttatcgcca tgtgatgcta cggctacgga 240
ttcattttcg ttattttaat caaccacatg gttccaaata tgtcctttca tcatttgaca 300
tcactcggtc cttttgggcg atgggaaact tcaatcatca cctcacgggt gacactttta 360
caaactacat cacatgatat ttttcaaaaa gtggaaacct ctttcaaaca tgtggtcttc 420
tattccacaa attcattttt tattattttt ctac 455

<210> 4969
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4969

agcttgaaca ctgcatcctt gttcaatagg ttgctcaatg gtttggtaat tntggagaaa 60
 tccttgatga acctccgata aaaacctgca tgtccaacaa aactcctgat acccttaaca 120
 tttactggtg gtggtaactt ctctatgaca tcgatttttg ctttgtccac ctcaatgcct 180
 tgggctgaaa ttttgtggcc caacattatc ccttcttgaa tcatgaagtg acacttctcc 240
 caattcagca ccagattcgc ttcaacacat ctttgcagct gtcataccct aatttcgtcc 300
 ggggactatc gtttgttgat cttttgatcc ttgctagtcg acttacgatg ttcaaacgcc 360
 agttacagtg canaacagat gatcat 386

<210> 4970
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4970

tataccaatt atgtatatat tttttgcttc atcagttggt ggatggaaat gccatcaaaa 60
 tgccaaatga gtggtggcat ggaaactaaa agctcattaa ttatttcttg cattgatggc 120
 ctggattttg gatgggggca caagcatggt aatgctaata ttacaataag cacaatttct 180
 tgcatacctt ttcgatagaa gggtagtggt attcgtgagt ccaataaatg aggagaaat 240
 gttagaccag agatgcacat gctatcaaga taatagtcac agcaattggc agagataatc 300
 aattacaact cacatcactt gctacgacta caacta 336

<210> 4971
 <211> 131
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4971

tctgcttatg ccagcaacag ttatacctaa ccatttgant tagaccaagc atgcaaaaact 60

ttttaagttc taattataat atatcaacaa actgggtaat tccctaattgg caaacgggaa 120
gtttcttcat t 131

<210> 4972
<211> 172
<212> DNA
<213> Glycine max

<400> 4972

cttagttagt gttccgtagt cgaaatgttg tgcttgactc ttacattact ttagtcagag 60
aaaatttgac attgggttta tgtgttcgag actcatgggc ttgcagaata tatagctcaa 120
gtgagattta ctttacaact agatactttt atatacattt ttagactaca ta 172

<210> 4973
<211> 276
<212> DNA
<213> Glycine max

<400> 4973

agcttaacca atgtcatgtt aaaaccactt tttttaagtc acgtcaagac cctgtcactc 60
ttatatattc atgtgaacct agcatatagc catgagcatg ctgttatcat aaaattaaat 120
tacaacagtg cccttgaagg aaagtccaga aaggatcaat aagagaaaag tttagaacac 180
accaataggt aaattagttg catcagctaa aatgatgatg caacagtctc taatgatcca 240
ataattaact agctagcaac ttgtgggtct tatata 276

<210> 4974
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4974

tgtagaggct acaacaagat agtgggttcta gagaataaaa cagttaatat agataaattg 60
gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtntg 120
gttttcatga gtgtccaaca gcatcatcat tgtattactt tgcttttaac agaggccaga 180
cagctgcttc tgcaattaag ttgacatttg agaataaaaat catgtaatgt aattcatgcc 240
cctctattca tgtgaatact taaatacacg catgctntgt ttgcanatca ccgggtagag 300

ggttgattag gtagttgttc anaggctctg gataatattt attttgactg ttaaaattac 360
 tacaaatttc tagaatattc ttacatatataa tatgtatgaa aatg 404

<210> 4975
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 4975

agcttcatct aactgggtcat acatatgaat catggccgca gctccccagg cataccccca 60
 ctttgaccca ggtcgcgaaa agcctctaga tgtaccacat gaacatttgt tgcactcttg 120
 ttagaaaaaa gagtgcaccc gaccaggtgt agtagataag cagagctgc tacaatccat 180
 cgtcgtgcct gacatctcat ttcatagatc tcttgaaccc atgagaggtg tacatatgcc 240
 ctgcgcgctc gtattgactc ggctctagcc tcttcaccag acacctcgag caactccatc 300
 aacaaaaata ccgctctcatc caccgaaata gcctcgaagc tgtggaaagc gccactgata 360
 gggagatgga ggagtgcga cacatcatct agtgtgatcg tcaactctcc tact 414

<210> 4976
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 4976

ctttgcaagc tggaatcatt tatcctatct ccgacagcca atgggtgagt cccgtccagg 60
 tagtcccgaa aaagactggc ctcacagtga tcagaaatga gaaggaggag ctgattccta 120
 ctcgggtgca gaacagttgg agagtctgca ttgactatag gaggtgaac caggttacca 180
 aaaaggacca ttttccoctg ccattcattg accagatgct tgaacgcctg gcaggtaaatt 240
 cccactactg tttccttgat ggtttttctg gttatatgca aattactatt gtcctgagg 300
 atcaggaaaa gaccacattc a 321

<210> 4977
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4977

agctntactg cctcatcatt gctgaagaag ttttaataaac catcactccc tactataaca 60
aattgatcgg aatttgaaat tctatggaca ttcaatgatg gttgcgtgga tatgtatggg 120
gggcttttaa gatcccgaac tcgaaggatt cccatcaaag catcattcag atttttctgc 180
aggagaataa aataagaaaa ttaaattctat gtttggtact tggtaggaca aagatttatt 240
ctttgcaatc gtccattcac agacacagtc agtagattga attttaaggg tttataatta 300
tcacatttac ttgctaaaat atcagtaccc aaaatcttat agaaacctat tggctgaagt 360
gtaagagaga atactaacct ttttcaagta gccaaactcca aaagctcgag taaccttcaa 420
tttacctttc acttttctctn ctataacgat cttgggat 458

<210> 4978

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4978

cttgagaatt ttaaataact gggaaggac ggcacttaag ttttctcaat ttaacaatat 60
agacttagta attaggcagc atttgatatt gaaagtggta ccattgtttg tcaactggaca 120
gtggaaaatg tatagatttc ttggccagct agcttgtaac tacagcatca taactgaatc 180
ttacgtttgt ttttatgaaa ttttttattt gctattcatt nttcattttg tgctatgta 240
aatctattcg cttcattttt cagcggcttg gaaaccaatg gttgctggca tagatggcct 300
aaccttgggt ggg 313

<210> 4979

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4979

tcgtaccgg gatccttaag ttacctgccg catgcaagct tgtgagagtc tnttactgc 60
aatttgtctt ccactctgga gagttccctg ataaaagttt gcaataaata taaggcttaa 120
agcatataaa aagatggtaa aagtagagaa tcactaatat ataccttgta aacagggcca 180

aatccacctt cccctaactt agatgcttct gaaaagttat cagtactctt tagaattgtg 240
 attaatggga atgtaggcaa gtctacatta agtgtttcct cagtttgaac attgtgatat 300
 gatgattgat caatgggtatc aggtatcctt ccatctgcaa agaagacaag tttttgagtt 360
 tgtgaaataa actaaaattt ctagtatata tgtattgttt caggaaatta ccttttcctc 420
 ttcctcttct agatcttttc ctgaaccaga agcaataaac actgaaacat agta 474

<210> 4980
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4980

tataagctag ttgaaagctt atattaaatc agttaattag tttataagtt ntttttacta 60
 attnttaatt tttcaacttt tagcttatga caatatatgt ttggtaaggt ctttgaagaa 120
 ctaataagct tctttaatta gcttataagt ttctttgagc aaaataagtt tgtttggtat 180
 ctaacttatt ttaatagttt attttctata agctactact tcaagtaatt tattttgata 240
 agttatttga agtaatttat agaaaataag ataacatata aattattatt ttttttcttc 300
 ttctccattn tacttttact attttatttg acatttcatt ttacccttat attcaataaa 360
 aaatcttcta tctttttgtt ggtgatgaaa aactttgtat ctattntatg ttttacaata 420
 tgatatcacc tctc 434

<210> 4981
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 4981

agctttaaca atatattctt tgcgggaaat tatccatggt tggttgacat ggtcaacaaa 60
 cattgggttat gctgaacaaa caatttcaaa cttcttaaag caatcatcga aatgatcctt 120
 aaaaggacaa tcaaccaaac tccccagac atacatcaca taatcccatg catttttttg 180
 accaactaga gatttacatt ttaccttgac attcttgtca atgtgaaacc tacacaacaa 240
 gttggtacac ccagggaata cagtattcac tacattcatc aacgtaggt ctctatcgg 300
 aacaataact ccaaggagga catcacatct tagaaaaaga cattgaaacc gttctataga 360

t

361

<210> 4982
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4982

ntgtggcact ctgttacaca cgtcagccct ccatgtcagt cctggcacag gagcacatat 60
 atcatgccct tagcaattgg actctcaact gacagggttat ctctaaccat ttatattatt 120
 tgaatatatt gcaatctcct tatcacgtgg caggtattca attatctcta agctacacat 180
 tatctataag ccataattat ttacttgta ttacctacaa gtcggaatt atctgtaagg 240
 gttgttacaa caccgtaata gccctacaa acaatatact gcaacttcta ctctactcta 300
 taagtatcag gtttcatctc actcttttca tactcattca tactctccta attaacatac 360
 ttacttgagc gtcag 375

<210> 4983
 <211> 128
 <212> DNA
 <213> Glycine max

<400> 4983

agctttgagc aaattcaaac gacaatcact tttttactcg gatgtctgat tgagtcccg 60
 aatatgtcga gacgctcgaa attgaagaac gaagctctga gccaaatcta acgacaataa 120
 ctttttac 128

<210> 4984
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 4984

actcagcttc gtgatcaatt tcgagcgtct cgatatatta cgggactcag tcagacaacc 60
 aagtgaaaag ctattgtcgt ttgaatttgc tcagagcttc gatattccat ttcgagcgct 120
 tcgatatatt acgagactca atccgaccac cgagtgaaaa gttattggcg gttgaatttg 180

ctcagagctt cggcattcaa gttcaagcgt ctcgattatt acgggactaa atcagacatc 240
 tgagtaaaaa gtattggcgc ttgaattgct cagagttcgg aatccatttt gagcgtctcg 300
 atatat 306

<210> 4985
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 4985

catggagaac atgtactaaa ttactaattg taagaaatag gcttctaaaa aataaaaata 60
 aagaaggacg attatgaaat atacagatac cttccataat atgatcatat tatggaatag 120
 atagacggct attttttcta taatcaaata cattaaactt ttgaaccctt aaaatcagtg 180
 gtcgggctct agtaggaaca ctgaagtctg aacccttcag accttgacag acataatcca 240
 tatatagaag tc 252

<210> 4986
 <211> 200
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4986

ctgctagtga aagggttac tcgtgcatgt ttntgggtgt gttatcangt acattcaata 60
 ttttataaac tcaatgctaa acataaataa ctaatattat aatatgtact aacgacaaaa 120
 tttagatgca gtttcttata tactttaaga actattctaa cattagaatt ggaattctat 180
 tttagtaatt catacaatga 200

<210> 4987
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4987

agcttgccca gagtatgaat ccacggagga tatgcttacc acctcgaaag actggaaagc 60
 ggtttctaata gactcttctg cggcctccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgata cgatgaccag atgccctttc actacgaagt tcaacttttg 180

gtggagtgtg gaggaataa ctcccactga gtggatccac ggacgcccc aacagacagct 240
 gtaggggggg gttaatatcc attatttggg aggttaacttg acaggtgtga gggcctatct 300
 gtactgggag atcgatctct tccctaacct ctctgcgggg gccgtcgaaa gcacgaacca 360
 ccattgaact cggctttatg tgggaagttt gaatgggtatt tttccaagtg ttttatgcat 420
 acgttaaac 429

<210> 4988
 <211> 210
 <212> DNA
 <213> Glycine max

<400> 4988

tcttatccaa ggctcatctt ggtggtggag ctcttcttct catggcttat tccctagtgg 60
 atggcccctc ctctcacctc ttctgctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcacag atccagcctc cataaaaagcc ccacaagcaa 180
 gtttccatca agtggtaatc agagcacatg 210

<210> 4989
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4989

agcttcgtat caaatgacac agaaagcgtg tttctgcttt gcgcatggga gatgttcggg 60
 tgacaccttg catgcacgat tcttttctact aaaatcgata atattacaaa actatgtatc 120
 agtatcgata atttagaaaa ttatttacgt gtaaggggtga tttttgccac tccaaaatct 180
 tagttgataa aaaatactct cattataggt aaataatttt caaaattacc catattggta 240
 aataatttta caaaattatc catttttagta aaaaaaaaaat agtggtgcat gcacctttga 300
 aatgcaatag aaattatgag agtaaagaat ttattagaaa gcgtgggttt atcaaacttt 360
 aatgtactaa cacagtacaa tataactctc ttcaaactta tc 402

<210> 4990
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4990

ttgagctaga gtgtgatgcc tctggtgtag gtgtgggagt tgtgttatgg tagggtggac 60
 accctattac ttaatttagt gagaaacttc atgggtgccgc tcttaactac cccacatatg 120
 ataaggagct ttatgcctta gttagagccc tccaaacttg ggaacattac cttgtttcca 180
 aggagtttgt tattcatagc gatcatgaat cacttaagta cattagagga caatgcaang 240
 tatacaagag gcatgcaaaa tgggtagagt tccaagagcc atttctatat gtta 294

<210> 4991
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 4991
 agcttgtcct taaattcagt taagagcaac gcatagctca cattatctgc ttcaactcct 60
 aaacaatcca aaatttttgg cttctggttt tatgtcaata catcaaaatc ttatgtttta 120
 cttgtgtcat catgtaatgc ttcctctact attgattcca taaaacagaa aaaaaaacac 180
 tataaaatga aacctaatat catcaacaac ataaacccaaa atttttggct gctgggttttg 240
 tgcccatgcc ccacatttga tcttcgatga tccaatctac aaatctcccc cccgcccccc 300
 ataaaaatga a 311

<210> 4992
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4992

tataaaactnt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
 tcttaagaag gggggggttg attaagatat tccaaattat ttcccctaata tagaaatcta 120
 tttcactttt taaccaagtt atgaattccc ttaatgaaaa tcttcttaaa tattaattca 180
 aatgaaacaa tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcaagttta tactgggttcg gccacaccct tgtgcctacg tccagtcctc 300
 aagcaaccgg cttgagagtt cactatcttg taaatccttt tacagttcta acaca 355

<210> 4993
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 4993

agcttctcgt tcattgccat aggtgtggca agtggtttgc aatcttgcg gttgaacttc 60
 ttttaataagt catccgcata tttttcttgc gagaaaaata tttgtccaag tctttgcttg 120
 acttgcacat tcacatatag tgacggctca cttggacttt tgaggaatct atgctcgacg 180
 aaggatttgc ctattttgtt gtccatgctc ggggagcttg tttgagacca taaaatgcg 240
 ttttcaagcg atatactttg gcttcttctc cctg 274

<210> 4994
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4994

tgtaatcaat tacacacata ctgtaatcga ttaccagagg agattttcag aaaatattct 60
 caacagtcac atctttttat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
 cttgagacac gaatttgcca agactttttg agaacaaaaa ggtcttatcc tcttaaagag 180
 caaaattgtt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctntaaag agagatttct tcttctcttc 300
 ttctttattt tgaaaaggga ttaagagacc gagggctctt tngtgtaaag aaatctgaac 360
 a 361

<210> 4995
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4995

agcttgtaat agtatnttga gcaataatat ccagctatct tttggatctc cccctcttcc 60
 cccctgattt tctgtaaat cgataagtat gatatccact atgtctggct aaattctttg 120

aaggcaccct caaggggcct tatttatctt catttagaaa atgcgaatat gatttagaac 180
 ccaaatgttt attttacttt tgattttttt ttgaaaacc tgcggtttgt aagcctgcaa 240
 aggtgtgccc ttgatatatg ttttcaaaaa caatggaagt ccttatgg 288

<210> 4996
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 4996

tggatctgtg tttcagagga atttgatgtt ttcaacgtat caagagcaat tcttgacacg 60
 attactgatt cgactgatca tggtagagag ctagaaatag ttcagagaag actaaaagaa 120
 aaattggcag ataaaaaatt tctcgtcgtt ttggatgacg tttggaacga aagcaggcct 180
 aaatgggaag ctgtgcagaa tgctcttgtt tgtggagctc 220

<210> 4997
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 4997

cgattctcac tcaattcttc accaaatcac gtgccgtaaa gcccaatctt tctctttttc 60
 actcctcttt cacttccacc gatcaaaatc cagaaaaact tcatcaaatg gcagagccat 120
 caaagaagag aaagggatca tcttccaccg ctaccgctgc tggccatcgc cgtcacggcc 180
 catccggagc acccacagca cctattcttc cttctttgtc atctccaaga tcatcaacat 240
 tgttttcatc cgatgatcaa cgtcta 266

<210> 4998
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 4998

tgtagaatgg ccagacatga tacatgtcaa ggtttggtt ggttcaagga ttaaagggat 60
 gcccacatt atttccacga caciaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
 ctggtcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180

tagggctcag gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcggggcgt ccgggggaaat ttcacagcat 300
 tcacccttca ggtgtagaca cattttccaa aaattgggta tgatcaatga attttttttt 360
 c 361

<210> 4999
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4999

agctatgagt tggtttctgg ccttagaatt aattntgcta agagccaatt tggtgcaatt 60
 ggccaatctg aggagtgggtg tactcttgca gcagatatct tgaattgtgg tcctctgcag 120
 ttcccatтта tatacctagg gatgcctata ggtgttaacc ctanaaggaa ggtgggtgtgg 180
 gagcctctaa tcacaaaatt tgaggccaaa ctgaacaaat ggaaccagag aagtctatct 240
 atggctggca gaattacttt aattaatgct gccttgacag ctttgccttt gttctatatg 300
 tcctttttta gggcccctac agcaatcatt aagaggctca ctgctattca aagacaat 358

<210> 5000
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5000

nntggatattt ataagtcccc ttcaatcaag tatttgttgt ctctaaacgg gcatatttcc 60
 tctcttaagt ttgcatctga aaaatttgggt ccttggttca ttaaatgcac gcacttcctc 120
 atgctaggaa actactcttt gttgctagtг ttttgaacac catagcagga aaccacttcc 180
 tttttgtatc aaagcatgtc tatgcagcat aacttttctt ttgatggcaa ctgaggaatt 240
 gcatagcttg acttcattta ttcttcataa gattcgagag atcctaagag aatgtttctg 300
 cacaatagat ctgagacaca ggatttaat 329

<210> 5001
 <211> 448

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5001

agcttgtgat aaggagactt ttccttcctt gtttgtccat taaggaggaa gcaatacaag 60
ttcctgcaac aaaataaaac ttcaatcaga aacaatatct tgtttgcgga acatatacaa 120
taaccttctt ttactgaatg cacaataaac atttttaaga ataaaaaata ccaaccaaaa 180
acatttgatg caccaaccaa ggcacttgct gcaacatcag aagcaattcc agcactacgg 240
aacacagaag ttgaataata aactacagca tttattccag ccaactgctg gaacaagaaa 300
agtgtgccc caacactgac aactgaaaca aggcatantt taaggaagtg ctatatacta 360
tttcataaaa gaatacattt aatcaactaa atagtaaact aaaaaaaagt tgtcagttaa 420
attaaaacat gaacaatgat aatattat 448

<210> 5002
<211> 336
<212> DNA
<213> Glycine max

<400> 5002

tgttcgaaga tcctcgagac gttataagag gggccaatct ttctgaaaag actttcaaga 60
agtttttgaa gattttctct gatgaaaact ataacctgca tccttttgag ttcaaccatt 120
cccacttttg caccatgggg tttgttacct ggtgggagaa atattattcg acccggtcag 180
ttggagacac tactatcatg atctccagac ttgagagtgg ttttacacaa ccaacggtcg 240
agaatatccg ctcaaacctt caagctcgag gtattaaatt acttttgact ttctaaattg 300
atatgtattt ttgccttttc taatattctt attttc 336

<210> 5003
<211> 238
<212> DNA
<213> Glycine max

<400> 5003

tattacggac ctataaatct cagcttcctg aactatatcg attgaaatag gtgctgacgt 60
tcttgacctg caaatcgcat catataacat cggaagcaa tggtcgcgcg ctgagcactc 120

ataacatgtg gcttatcgct ttctctagac acgcactagg acggaggact gttacaaatt 180
 acatgaaacc atagatagtc tgcagttctt tattatatat aatgtggacc tccccga 238

<210> 5004
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5004

catgaagctt cgcgcttttt attatgaagt tgcaatctaa cacaaagggg gatgatgttt 60
 ccttccaccg caaaaaataa cgaccagtta ttttcaatct actatcttta cctctttcct 120
 ttttcctttg gtttttattc actcaacttc ggcactgttt tcacctcaca atcacaatgc 180
 ctgcatgcat aaatactatg tgtctgaaaa tcacaaccta tctcggacgc attgatgcgg 240
 taattgaatt tttttaatac aaatcataaa tgtcataatt aatntgtgtt tagaagtttt 300
 ttactacta ctactataan tctaattaa aaaaaagttt a 341

<210> 5005
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 5005

taaggattgt caacattcca atttctcgag gaatgtgacc gataagggtta ttttctgcaa 60
 tacgcagaaa tccaacttg ttcaacttcc caatctctgg aggaatgtgg ccagaaaatt 120
 tggcgggtact taagtctaga tatgacaggt tggacaagtt tgctatggaa ttaggaattg 180
 ctccacttag ttgaagacat tgggaaagat caagagcatg taaactcctt agtgaccaca 240
 tttcttgagg gatggaacca tggaaagaat ctaaagaaaa attcacaaca ttacttttg 300
 acatgttacc 310

<210> 5006
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5006

tgctacaaac tgggaagggtg gttntagagt tactgaatca ctcaaaaatg gagcctatct 60
 actatagtct tatccgacaa ggtaattcca agagcctaaa acaagactta cctcaaattc 120
 tattacagtt aaacttgtaa gtgggtgatgt actatTTTTc ctacgagatt tttttgtaa 180
 atatgtctta acgaggcaca cccaaatTTT acattgaata aagtactatt tttatgattt 240
 ttattaactn tatagatctg agtagaccaa ttgggtttctc tgactaaaca c 291

<210> 5007
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5007

agctctgata ccacttgTTa tacaagtggc ctctgatatc ttaagaagga gtgggtgaat 60
 taagatatta caaactatTT tcccaattaa aattctactt tgattTTaat gcaagttcca 120
 agttccctta atgacgaatt tctaaatgat gattcaaatt aaacaatttg agtgtaaatt 180
 taaaacaaca atagataaaa gagTTtaagg gaagagaaag tgcaaaactta gTTTTatact 240
 gattcggcca tacccttTgtg cttacgtTca gtccccaagc agctcgcttg agagttccac 300
 taacttg 307

<210> 5008
 <211> 307
 <212> DNA
 <213> Glycine max
 <400> 5008

agcttcgacc tatgttcatg aattgtgtgc catcacaact gccgttaaga agtggagaca 60
 ataccttctt ggccatcaat tcatgatctt gactgatcac agaagtctta aggagctcat 120
 gactcagatt gttcaaactc cagagcagca aatgtatTTT gccaggctta tggggTatga 180
 ctactccatt caatatcggt ccgggagcac taatttgTta gctgatgcct tatcgcgctt 240
 gaaggaggga tcagaaggaa ccatgttatt actatctgta ccttgctga catttctaga 300
 tgaattg 307

<210> 5009
 <211> 311

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5009

tctcaataaa tacttataga tgaagattat taanaagcaa attaataaat caaatgtgat 60
tagaagtgta tatatatgta taccatgttc tttgagccca gttgccaagt tgtagtctt 120
tctccaagc ctgttcatcc cggtagaac tgaatttact ctacctgaaa aatcaagaca 180
ttaattcagt atttcagtggt tgtgaatata aacatacctt tattgaatac ctgatgaaca 240
attatctttt ctctcgtttt ctaattaaac aattgatcaa attatcttct aataaacgat 300
atatatatct c 311

<210> 5010
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5010

agcttgatat tttccatata tctcaatgaa ttacaattgc tttatttata ctagtttcct 60
tgctaacggt ttttgtcatt ttgtgccaag gaatatctttt aggaaatcat tggatcatca 120
attatgacta cactgtcccc ccatgaccaa caattcctca tctggcaata tcagcgcaaa 180
tctagggtcaa ctctctctcc atgacttttc tttatacgta gtccctgatg taagagggcc 240
tttgtatggt cctcttttgc tttgtgcta tttgtaccg tttgttctgt gtttgaacct 300
ctntttgatg atctttgttg cctctgctag ctatttcttc ctttgtatca cctgtactta 360
gatggaatgt tac 373

<210> 5011
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5011

nttggtctta aataaaaagg gttctccctt tttcccttat tttattcaag ctctgccaca 60
tgtccttatt tgagtggagc aagaagggcc cactttctct ttttgactgt gaccatact 120

cagtcacaaa agtgagaaaa aatctgacct ttgaaacgct aaaatcctgc ctcggtttgc 180
 gtgccatttc tctgattcca gattctcgcg tttctctgcg tccgccgggg ccagttttcg 240
 aaagcaagca atatatatat cataacgctc agaatgaaac cc 282

<210> 5012
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5012

gcttgatcaa aacaattatc taatcattcc aatccactca aatcatacaa ttgctcattc 60
 aaatcattct caaactca tttcatgcaa aacaatccac tacatatcat tttcaatcaa 120
 ttcattgggtc aaacacgctt ttggtacaaa caaacaactc aaagtgctga aatttatata 180
 attgaaattt aaaaaaattg aaatataaaa tctgaaatta aaatgactga acatanatca 240
 taaaataatt gaaaataaac taaaatgttc gagatgcaca aatttaaagc tcctgctcct 300
 gtggntgctc ctatgcatgc tcatta 326

<210> 5013
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5013

tgctctanat tacattgatg tttgtattta tgggaggagg ttatatgcca tttttgcttt 60
 aagagtagtg tcccactggt aaaattaact ttccaaatgt ttgccttcgc aggaatggcc 120
 ccgaggaagc ttgcctcaaa gaggtccagg aaggacaagg cggccgaagg aactagttcc 180
 gctctggagt acgacagtca ccgcttcagg agcgttgtag accagcagcg cttcgaagcc 240
 atcaagggat ggtcggtttct ccgggagcga cgcgtccagc tcanggacga cgagtatact 300
 ga 302

<210> 5014
 <211> 129
 <212> DNA
 <213> Glycine max

<400> 5014

agcttttagtg actatatgac gtagctccat tggagcttgt aggccttgga tcttcttcat 60
caatggagtc ctttgcttct tgaattttta tggcagtggga atggagaaaa agaagagttg 120
agaggagac 129

<210> 5015

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5015

tgngactgca tttgggcatt tattttgact ttcctatgct gtctctacat acacaaaata 60
gccccacccat cccaattttg caaaatcata ttcattcatc attggggcat ttcaccgagc 120
acttggtgag cgcattgtttg aacataaatt gcaagaggat ggggacaatg tggcatgccc 180
cattgcttca gaatacaacc taagcctaag gccttctcat ccaaactctc aaccaagaa 240
aacaaggatc aaagcaaacc aaaactgcct cacaatatata agcatgttct cacaatttag 300
agtacaaaa gatgaagaaa acacatcaat ggggaagcgaa naacatcaag gatggaatac 360
ttacttggtg agtgaattga acacaaaat gaagcaaac 399

<210> 5016

<211> 354

<212> DNA

<213> Glycine max

<400> 5016

aggctagttt tggacccttt atcattgact tccaaacttt ataaatgaag acattacgat 60
tgcagaaaat ctatttatgt ttcgaagggt tacaatggta gtcatttata tttaatgagg 120
ctttgatgga aaggtagctt attaaaaaga gacttacaca tgtgtcaaaa aaaggtttgt 180
gaacactttt gcgttaaaaa gacgtctata tgggtgcatg taacattgac ctttacatgt 240
taccataaaa taattctact atttgataa taatatatgt atatataata taattcatac 300
ttatcatcat tctatttata tatctatatg tcacctgtca tatttaaacc aatc 354

<210> 5017

<211> 408

<212> DNA
<213> Glycine max

<400> 5017

tctaaagaag atgtaaaaat ctcatgtgcg agtaaaatag ttggaattat agacaaacca 60
aaatatatat tagaggggta gttgatggga atatctaaga tctatgacta tatccaacct 120
cgttaggcta caagaacacg agtttggagt caaatcaaaa tttcttgctg aggatagtta 180
tctagaagaa ccaacaaggg tttttgtgtg tgttgtgtac tgttaactgt caactttatc 240
agttcgagtg atgagtagca ttgcacaatg taatcgaaaa ttctcataaa caaaagccgt 300
agaagtgaat atttatgata atacctaaca aaagaagcaa ttgctggcgg taacagcgag 360
attaattatc gagcagttgg agcagtgctt tgacgcacat caacaact 408

<210> 5018
<211> 74
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5018

tagcttgtan gccttggttc ttcttcatca atgtgagtc tatgcttctt gaattttaat 60
cacaggggaa tgga 74

<210> 5019
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5019

tgcttgagaa gcttctatgg aggctggatc tttcagcttc aatgagatcc ttcaatggag 60
atgcaacaaa agataaagga gaagaggtga gaggaggcgt catcccctag ggaataaacc 120
atggaaggag gatcttcacc accaagagag tgccttcgat aagaagcttg aagaggaagc 180
ttcaatggag gaaaagaatg agagagagat agacgngggg gggggggggg 229

<210> 5020
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5020

tttatattgc taagagccaa tttggtgcaa ttggccaatc tgaggagtgg tgtactcttg 60
cagcaaatat cttgaattgt ggtcctctgc agttcccatt tatataccta aggatgccta 120
tatgtggtaa ccctaaaagg aaggtggtgt gggagcctct aatcaaaaaa attgaggcca 180
aactgaacaa atggaaccag agaagtctat ctatggctgg cagaattact ttaattaatg 240
ctgccttgac agctttgcct ttgttctata tgctcttctt tagggcccct acaccatcat 300
taagaggctc actgctattc aaagaccatt tctttggggg ggaaacttat aaagagaaaa 360
gaagcttggg tgcttgggaat aaatgtggct n 391

<210> 5021
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5021

cttggtatTT ataagtctc ttcaatcaag tatttgttgt ctctaaacgg gcatatttcc 60
tctcttaagt ttgcatctga aaaatttggg ccttggttca ttaaatagcac gcacttctc 120
atgctaggaa actactctnt gttgctagtg ttttgaacac catagcagga aaccactatc 180
cttttgtatc aaagcatgtc tatgcagcat aacttttctt ttgatggcaa ctgaagaatt 240
gcatagctcg acttcattta ttcttcataa gattcgagag atcctaagag aatgtttctg 300
aaaatagatc tcagacacag tatctaataa aattttaaat gttatctcta atgttgatca 360
ta 362

<210> 5022
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5022

tcttgatttc ttccaccatt ganttttcaa ccgctctaata tcttgcttcc acacttagca 60
aatctgaaac cccatctggg atcaaagtgc ttttgttata tcttgaactt tgatagccat 120

tttcatggag acaagtttca attactgcat cctggacaaa caaacattca tgataaaca 180
ggataagtag aattcatatt tcttgcata gctcattgcc tcatttaata agacagactt 240
aagaacaaaa ctgaagtaca cgataacaag tcaatggaat attacc 286

<210> 5023
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5023

agctntcaca atatctagac aattcaattc catttgatcat gaaactacct taaacaaaga 60
aaaataaagt ggaggcagaa tctttgcaca agattcattc aaattccaca gagtttttcc 120
taccctcata cctcagcaaa atcctcttct ttctgatttg ttaaccattg gatctccttg 180
aaaattttac tgggggttcc taatgcagaa atctaaattt tgaccgttgg gatctgctat 240
aaaatgtcta gaacacgaga tgtactacct ttcccgtgac tagcactgcc caaccatttt 300
tctacataat ttggcagttt tgctacacaa tttaacagct gtctctgcat aatctggtag 360
atntcgaatt ctggcttgca tgtatccaat ttcactcana ttggatccta caagtcctaa 420
atcatgtata aatcatgttc aaacc 445

<210> 5024
<211> 381
<212> DNA
<213> Glycine max
<400> 5024

cttatcatcc ttttttagtga ctcatgatag tcttaagttt acttcaattg ttgttcttta 60
cagaaatttt cattttctgaa tacacttaag caaactcatc agtaggcata aacttagaag 120
gctcatgatt cctgctcaga aggttttttca taattaaaac accaataatt ttggactcaa 180
cagttcttta attttgacac actcataatg atgctcagaa aggttttagag agcaactacc 240
agagttgaga acttgaata attcttgaag ccattataaa tgatggagtg tgcttccttc 300
taagtactta attctaggaa aaatgatgaa caacaaggcc ttacatagaa gattcattag 360
atgctacatg aagagcatca t 381

<210> 5025
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5025

agctnttttaa caaacactgg ccgataatat ttctatactg ttaagaaagt tttgttggtg 60
 gtgtcgcccta taaaattttc aatgttggtt ggctaagttt tttcgttcga gctcaaata 120
 atttgtatatt cgcccgacac cggcatgttt tcatttgctt ggcaaggaaa acattngccc 180
 acctcagaaa aaacatgatt caccgatacg tatcgcaaaa gattctagcc gacgtcggcc 240
 aagagagatg accgatcgag ctataaaaaa gaagcatcac cggatgacgc cgatcgaaca 300
 tttcctaata gacatcagcc aaatattatt cagggattga atagaaaata caatatctga 360
 aatcggtagt taaaatgct 379

<210> 5026
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5026

ntacaacaga ttntagtaat gaccactaa cctagaatta aaataactta atgccattaa 60
 cctagggat taaaaaaaaa cttaatggct gaggtaact gaaattgtgg caaccaaag 120
 tcacccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctatgt 180
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagtttatt 240
 aacccaaaac atatttttgg tcaaccaact ttacaaggat tgagccatta ttagacaaa 300
 ctaaactc taaaattgag acaaagtggt gccatttagt cctcctccat ttgggccatg 360
 atacaactca c 371

<210> 5027
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5027

agctngatgc atacataaat caacaaaaag aatgttagtg aattcattca ataataatat 60
 tacattatag aaattaataa ataataagtt aatataccaa tttatcattc aattattatt 120
 ataatatcat attttatata aaattgagca taatatatat taaatatttc aaaaaaatg 180
 aaatagcatg tgaactgcag tgatttttta tgatttgact caaacaaaat agtttttcgt 240
 aataataatt caaaaaata taaatataat tcttaaatta attttactat ctaataaatt 300
 atattatcat ataaatatta atctggcatt aaattttgca tatgaagtta gatgcataaa 360
 ttaaataaac anaaaaagag ag 382

<210> 5028
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5028

tggagtcact ccaacacttc atgtacttag ctcttgtaac gccctttggtt acaataacaa 60
 tccgtaataa aaatatactt tataacgttc ataaaataaa aatgtttatt ttaatgggcc 120
 aaaatacttc aaatattata ataaatgagt cttacaaaa ataaacaact ttattctcaa 180
 atatgaacag ctacaaagtt taacgaacaa tgaactgagt cttcaattct cttttgtctt 240
 aaaagcttct tctcgaact cttaaaacaa cacttttaat gagataataa tctcaatgaa 300
 taaaataagt tctgaaagga ttcacaaata gtgttggtct cagacgacgc ggtaatcaga 360
 aaaatccaat aatgatatcc ataanattaa aatttaaata atatatacat a 411

<210> 5029
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 5029

tagcttgcca cccagctcgt ccaggcgagc tatgttgctt cctccagaat gttgttctgg 60
 tggaacttct tggaaggccc aaatgggcct ggttgctatt tgcaccccca tgtttactaa 120
 atacaccccc tgcctttttt gctgattctt tttccgtaac gttacggatc tttacgaatc 180
 acgtaacgat acttgtttcc tttccgtaat gtcacgaaac ctttttacgg attacgtaat 240
 tatccctttt ttggctttcg gaatgttaca aaacatcacg gatcgtgcaa caatgcttcc 300

ttttgacttt cggcatgtca cggaacttca cagattgtgc aacactgctt tcttttgact 360
tctggcat 368

<210> 5030
<211> 285
<212> DNA
<213> Glycine max

<400> 5030

tggacataaa ccccgccctac agttgcctgc tatgtcggcc ttggatccat tctgttgggg 60
tggtcctgtc aatgttgac caaaaattaa agtttatggt ggaaggacaa ctggttatag 120
tgccatggga agaagatata ctaatgagtt gtccatcctc ttcaccctat gtggaagctg 180
tggaagagtc attggaaaca tcttttcaag cactagaaat tgtgaacaat gcttatgtgg 240
aggctcctct ggtgcaaccg cgtctatctg gtgatggcac agaat 285

<210> 5031
<211> 397
<212> DNA
<213> Glycine max

<400> 5031

agcttatggt agtgaactct ttcactgtgg tctcgacata caagctttta gaaggactac 60
aacaatctga acaagagggt cagcagagtg caaacttggt ttccaaattc tgggtgtgcaa 120
aagttccaac gaaagtactt gttttctctt ggaaattact ccaagatagg cttccaacag 180
cacaagcgct ctagaggagg ggagttatta ttcaagacta caatttttca tgcaaactgt 240
gtggccttga ggtggaaacc aacaatcatt tgttcttact atgtccggta attaacagat 300
tgtgggaaag agttatggca tgggtgggaa tggatttaca aattccaaat catatcaacc 360
agctgttcgg gatgattaga gagaatctat tgggtgc 397

<210> 5032
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5032

tggatttcct tttagtaggg aatctatcct tcctaagatg gagccaaacc cagtcaccct 60
tattaagaac tagctctttt attcctttat tgcctttagt tgaatacacc tttgtttggt 120
tctctatttg gttcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
cttctttatg tataaaagaa gtgtctagtg ggaggggaat gtgtctagtg ggaggggaat 240
gagggtctaac tgtgacatcc tggaaatatt tacctggaat tttgtaagcg atatattnta 300
aataaatata tatatgtatt attcagtgga tatatatata tataact 346

<210> 5033
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5033

agctntgcat gtctaggggt tctagagaga gaaagggtcca agttctagag agttttgaga 60
gattttgttg tgtgaagatc tgcagagacc agagcttgaa acaagagccg gtttgagagc 120
ttgagatgag tttgtgagtg attgcgagat cctagagggtg aaggagacat cttcaccact 180
tgtatatttg caatctttca tcttgttctt ctctttgttc ttaagaaggc tttctggtat 240
ggaaagctaa atcctttgtg gatcttcctt gtaggtacct gatgtaaata tatttctatc 300
tatttaatga tgttntgtgt gttctctgtg ctatctgctt ttcattccag tatgccttta 360
ccttgatcac gtagatg 377

<210> 5034
<211> 246
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5034

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
gccccacact atttccatga cacaaatgca aaaatgatga tttggaaact tttatgcaaa 120
actggatcatg catgcaccta tgtggacact caagtgtcaa acttttatgg tcatgtgatg 180
ctagggctca ggattcattt cctccattnt aaatcaaccc aatgtttcca aaatatgttc 240
ttttat 246

<210> 5035
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 5035

taaaacaagc ttcccgtcag tggtagctta agtttcatgg gataatttct tcatttggtt 60
 ttgatgaaaa ccccatggat caatgcatat accacaaggt tagtgggagt aaaatatgct 120
 ttcttggttt atatgtagat gatattttac ttgcaaccca cgattcgggt ttgctacatg 180
 aggtgaaaca atttctcttc taaaattttg acatgaaaga tatgggtgat gcatcttatg 240
 tcatcggcat taagattcat agagatagat ctcgaggat tttaggtcta tca 293

<210> 5036
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5036

tgactaggcg agttgattnt agccttagtt tcacttttagt tattagtcaa ttaaattaag 60
 aatgagaaat cccaaagaca aaacgtccga ttgattnttc gctttatttt actaaaaggt 120
 attttttgat tattatatta ttattttacc tcttttttta ttccaacgt ggttacgaca 180
 cgaccgaacg gtcggaattc attttaaccg aaattaacgg atgatgcaat tcanacgatc 240
 ggtggaattt tattntattn ttagattang cgagaaatga cttatataaa tggcttaagc 300
 acgtncaaag ggggtataaa aagtgaatgn aaacgagaat aaaaa 345

<210> 5037
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 5037

agcttatgaa ccatatgcaa aaatgtgatt ggtaaggat ttggcaaaaa gcttagcctg 60
 aagttcttgt taaatatattt attgaaaaaa aaatatggta atacaaaata attttgctat 120
 tgaattctat atttccatgg ttttgtttta agaatgtatc gatagagaat atttattctc 180
 cattaagcaa ggggaaagta gaattattat gaaggattaa aatattaata gaatttttat 240

gatttcaaat attaatagtt tatattataga tgtaatttac tacaaaatat tataacttttc 300
 ttttattcac gtaatacaat t 321

<210> 5038
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5038

ctgcaagaaa tagtggctaa tatgaggaca atccaattgt atgaggggac ccaacatcta 60
 gaggcctaca tgcgtgggtt gctagtcaca tgtattgctt gcttggagtg agaatagaag 120
 acaattattg gctaaggcat ttaataataa taataataat aataataata ataataataa 180
 taataataat aataataata ataaagtgtt tgtagctagt tttgagactt ggacctcaag 240
 ctttaattatg cctcacttaa tcactaaggc attntagtta tgtttacaat gttgagat 300
 tatgtttctt ttattttcta ccaagtcac aagaagtgt ttgtataaat caattgtgaa 360
 gtgaatggaa 370

<210> 5039
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 5039

agcttgattg cctattcatc aaaggagaa ttctcctgag ataatatatg agagatgcag 60
 caacaacctc agatttcatt cctttcactt caatggctat aatcagtcgt ttatataggg 120
 agaggcttaa catagacaca tcataaaacc accaatcatg gagttgagat ggtttctcag 180
 aagaaattcc attccacaat gcaactgtgt ctgcttgatt ttgcttgcaa ttgcttccaa 240
 ccacaggcca gtggaataag gttggatctg aacaagcctt tatagccaag gaatcaatgc 300
 atcttgaaac tatatggaga tcttttgtca agggctgcac ttccttcaca tgtttaa 357

<210> 5040
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5040

tatagatcag ctaatccaag agaaaaatga aaaatcgcaa aattgttagg tgtacctaac 60
aatgccctca caaggcttgg cgtcatgtcc catcctaaag gaatcaacaa cacactagct 120
aacctacttt aaaatttatc aaaaactact aataagatat aatataatta gtaaataatn 180
tagtcactta aacatgtgat cataaataga atctctagtt cgtatatttg gagaaacatt 240
agtttgaaaa gatcaatctt ttcaataaat ctacttaggt aaaaaaaatt aatcaatacc 300
ttttgaccaa aaaatatng attcctaccc atttttttaa taaaaaaatt ccaaa 355

<210> 5041
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5041

ttattatagt ccttctatgg gacctatctc gatgggtcga ttcacaaccc cacaacatt 60
taacttggtg agcgtaagtg cttaaagtga ttgatagaat tgaacctatg aaattatctt 120
ggtagatggg tacaatttcc taccaagaac ttatcatgta ggagtaagtg cttaagtact 180
gtcataagct atgtctcaaa gacttacctc ggtcaaataa tccatagtac aacaagtact 240
tatctagata ggcataagtg cttaagcttt cttgatcaat tgtccttagt aacatgagaa 300
ttactttgat gagtttgaca ccctacccca acatgcatat aaatgaaaaa anaacataaa 360
tgcggaatct aattaaagtc aatttcattc aataan 396

<210> 5042
<211> 396
<212> DNA
<213> Glycine max

<400> 5042

tgttggttac agtgacaaca attgggctgg agatgaagat gattggaaaa gtaccagtgg 60
atattgtgtt ttcataggaa acacaacctt cacttggatg tcaaaaaagt agccgatatt 120
cactcttttg actcgtgagg cagaatacgt agcagctact tcatgtgttt gtcatgcaat 180
ctagcataag aatttattaa aagagttggg catgtcacia gaagagttga ccaagatctt 240

tgtggataat aagttagtca ttgctctagc aaggaatcca gtgttctatg atcgaagcaa 300
gcatattgat accccttacc actacataag ggagtgcata gcaagaaagg atgtacatgc 360
agaatatgtg aagtctcaag accaagaagc tgacat 396

<210> 5043
<211> 390
<212> DNA
<213> Glycine max

<400> 5043

agcttgtaaa tatttattgg tataatttgc ctgttccatt aggctcttaa tgtctttaga 60
gattacttcc ttgttgacat cttttgtctt gaatggaatt gccatgatag gtttattggt 120
actgtctttg acatttggtg gttgatattg tgttgcgga ggtaattccg attagattaa 180
ctcaccatcc ttcattcgcc aattttttat gacatttgtt gttggatcac ctatgatatc 240
ttgtttccaa gggtaatcta tctcttctt aatggataa gcatgaaacc aatcaaagaa 300
aaggacatta attttgactc tttcgacaaa ttcgtacaac ttgtcttgga tttgctatct 360
gtttgtaccc tagaaatgtc gaaaaaatca 390

<210> 5044
<211> 323
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5044

tcaaccctac gtctgtctt tacatctcta tatatagaga atgcttcttc cattatctta 60
gcttngcca gcaattctgc tctctgtatt ccagaaggat gagtagagaa ataatccccg 120
aaggtagaat aaccagcaaa ttttctaac tctcatata ctttatgtgc caccggggga 180
tcataaccgg ctaatgcaat tatgtactaa gttatgtcac gcctattttg aacactcagt 240
ccatctatct atcacttgct catttgctaa attcattcgc gtattaactc atgtagatgt 300
taattgtgaa gcatcgggat aca 323

<210> 5045
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 5045

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agcttntggc aaaggaagaa gaagttcaag aatatgttca aagagattca aaggttgtaa 60
aagaatatat taaaaagtac ctgaaatgca agtcaaggtc ttgcttttat agactcttca 120
tgtctgggtca agaaaacccat tgaagagtta taaccttttag aaaaacctga aaaccattgg 180
aagagttaaa tgttttgatt tttattttaa acttgctcgt ggtaatcgat taccaaaacc 240
atgtaatcga ttacacaaag ctttttatga aaggatatga ctcttcacaa ttgattttga 300
atttcaacat ttagatacat tggtaatcga tttccaatat cttgtaatcg attacaccat 360
tttaaaatca attggaatgg tgcaaattca g 391
```

<210> 5046
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 5046

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tgtaggccta ggatcttctt catcaatgga ttcctttgct tcttggaata tgaatggcaa 60
cggaatggag aaggaagaga gagagagagg agacgccact tcaaggagaa gatgagtcta 120
gaagaagctc accaccataa gagggccatgg ataagagctt gggggaagaa ggagatgact 180
gaaggagag agagagaaga gcacgaaatt ttgtgctcca aatgagcttt gaaatctgaa 240
gtttgatatt caaatgatca aaagtgaata aaaatcacac acatgacctc tatttatagc 300
ctaagtgtca cacaaaaatg gagggaaatt cca 333
```

<210> 5047
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5047

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agcttcatgg atntccttct acaattatat cttataagga tgcaattttt ctcagcagtt 60
tttggaggga gatgntaaat tggctagaac tagtcctaag catagcactt cttatcatcc 120
ccaaacggat ggtcaaaccg aagttgctaa tcggtgctta aagacctatc ttaggtgctt 180
tgctggccct aagcccaaga cttgggtttga atggttgcac tgggctgagt tctggtttaa 240
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cagtaactac aatatctttg ctggaatgac acctttttaa cttttatatg gacgagatcc 300
 tccattgttg attaagagct gcaccattcc atcaaagttg gatgatgtaa atcagttggc 360
 ccaacaacga gatgat 376

<210> 5048
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 5048

agctcgctta gtagatgttt atcggaagg aaaatattca ctttatttat gaagttgtac 60
 aaattcataa tatttaattt attgtattat gtaacactgt atattatttc atgattgtac 120
 atttttagct tgtggaattt tgtttctgtg tcaagtttta gatgtttcat tcttttgta 180
 cgtgttgga atggaatgca tttaaagtat tctcttttat ttggtaaaat ctctcaaaag 240
 actataaaaa ttggtcataa ctaagagagt atttgtgcta ttacaagatt caagaaggga 300
 aaaaaattat ttcaaatttc a 321

<210> 5049
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5049

ctacagttgg atgcctcgct aagtggatgc atctcttaac caatctgcct cgctaagcga 60
 gtcattaaca acttttacct tctcttcttt ggcgtgaaat tgagttggat tcaacattaa 120
 ggcacaaaaa ttgagtttct actctataaa atcacacaat aaagaaaata tgtaccatct 180
 ctacaaaaag aaccataaat aggaggcata ttgctatttt cttgcaaatt tccaatacca 240
 aactaactca tggatgatgc aatcctaccc cccaagggtg ttggat 286

<210> 5050
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 5050

tccttgagaa gattcctaaa gaagctagag tttagctaca cacacctctc taatagctaa 60

gctcaccttc ttgaaatgag aagctagagc atagctacac acacctctct aatagctaag 120
ctcacctcct tgagataaga agctagagct tagctacaca ccccttataa tagctaagct 180
cacccecatg ccaaaatata tgaaaatata aaaaaaaagt ccctactata aagactactc 240
aaaatgccct gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 300
ccaaaaaaaa ggaaaaacct attctaattg ggctcataaa tctaccttga ggttcatgag 360
aacgc 365

<210> 5051
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5051

aacatccaag caaaacaacg ttctaacagc acaagctatc acagccaagc aaaacagagc 60
aaaggccgaa aactctgctc aacacatcaa ccaaaatcac agcttttctc acgtaaagac 120
cacagtaaca attccttcga tccaattcgt taaccgggtgg atcgactcca aaattttact 180
ggaagtctat agtgtataag cctgcatttt gaccggttggg atatactagc aaacatccag 240
aactcattct gcactagact ttccacagcc aaccacacac aagcattntt ctgcacttgt 300
gcaaaattct gctgcacaat ttcacagcaa aaactctgca t 341

<210> 5052
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5052

gaagaagaag aagttcagag agattcaagg cttgtaaagg attgtaagag attgattgaa 60
aagtattcaa gattgaatga atgtaaaagt gtaaaacaaa gccttgcttt tatagactcc 120
tcatgtctgg tcaagaatac cttttagaag agttataact tttagaaaaa cttaaaacca 180
atttgaaaaa gtcaaaaacc ttttaaagag ttacatcttt tgattttatc agaaacagtc 240
actggtaatc gattaccaa tcagtctaatt tgattacaca aggcttttta tgtgaaagga 300
tgtgattctt cacattngaa tntgaatttc aacgttcaaa ggcactttga atcaattacc 360

aaaacactgt aatcgattac aac

383

<210> 5053
<211> 325
<212> DNA
<213> Glycine max

<400> 5053

agcttctatg gatgttggat ctttgagctt taatggggtc cttcaatggt gtatttttagc 60
catggagttg tagtggaaga taaaaggaga agaagtgaga ataggcacca tccactaggg 120
aataagccat ggaagaagaa acttcaccac caagagagtg tcttggataa gaagcttaaa 180
gaggaagctt caatggagga agagaatgag agagaaagag aaagagaaaa agtggcatgg 240
gaatgaatga aaaacagggg gagaagatga actttgaagt tttctctcaa gattctcatt 300
catcaaagtt gccacaagtg ttaca 325

<210> 5054
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5054

tgaggagaag ctctgactcc atttgaccct ataaataaaa acatatgggt gagtctttnt 60
ggtttgccaa tcaaaataca aaaaaaaaac taaacataag ttaaaacaca ctagactagc 120
aaccactacg atgtggttat ctatcgaatc tcatatgcat ttctaagggtg tcaccttttc 180
actaattcaa catatatggt tatatatgac attggtgaagc taccactgga actcccagaa 240
cttagtagtc ttacgaaact ttagttt 267

<210> 5055
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5055

agcttgccctc anagatgtcc aagaaggata atgcggccga agggactagt tccgctcctg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagta gcgcttcgag gccatcaagg 120

gatggtcggtt tcgacgggag cgacgcgtcc aactcatgga cgacgagtat actgatttcc 180
aggaggagat agggcaccgg cggtaggacat cactgggttac ccccatggcc aagttcgatc 240
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgaggtcctg ggtaaggggt cagtggatcc cgtttgatgc cgaccctat 349

<210> 5056
<211> 314
<212> DNA
<213> Glycine max

<400> 5056

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggaggag ccttggaattt gaggacaaat ctttttcaag gagggagtga 180
tgaggacata accaatggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240
acttaaacaa gcccaacaca ttatagagaa caggctggtc atttggaatg ctgtcattga 300
tgatgattga aggc 314

<210> 5057
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5057

agcttgaatg tcttctgatg acgaaagtaa atactctgta aaatttcaaa ataatcataa 60
tcgaacgacc aacatcatcc tgataccatc gaccttcttc gccctgggtg acgaaaggta 120
cggataacca taaagtattc cccgcatgtc atcgaaactcg ttgtctctgg atgacaaaag 180
gtgcagaaga cgacgttagt ctctgcgtat caaccggctc gtttgctctt gngtgacaaa 240
ggtgcgggata accataaggt accccccctt gccacttga 279

<210> 5058
<211> 120
<212> DNA
<213> Glycine max

<400> 5058

tgagatgagg aagtgttgaa gggtgatact tcctgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcacgaga cctctgtgac gtcttgtttg gtgcttttgt 120

<210> 5059

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5059

agcttcctgc aaccattagc actccatnln ttatgnttat tcagtaaacc aattgagtca 60
tcaactgcaa ctaaactctc acaccaatca tatgaaagtt tctttcaatt tgggagatca 120
gatacattat gtatctgtgt taaaaaatcg cactgggtcaa aattcaaaac tcttagatgc 180
cagaactttc tgcaaggaaa aaaaaaaaaag aagatgacat cagaaccata tgaataaact 240
ttaagtgaat ttaataattc atgggatgag gatatctgtc atgtaactcg ccttggtatga 300
gcatggaac tcacatgaca taatggaact 330

<210> 5060

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5060

tgccttctga tttgagttga tcaagctttt tgctntttta tgggtcaatt tggattattc 60
ttcaatatat ttattctttt gctgctacgt tgttatgcta ttttttttcc aatgtattta 120
cttacgtaat tgtgttcaaa acagaagtag aagtaactat ttcattattt ttatgatatt 180
tgtttgctga gtagagctaa atatttcatt ctttctgaga gtttttttct ctcttctggg 240
atagatattc ttgtactcac cttagttgat gcagtgaatg atctataatt 290

<210> 5061

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5061

agcttgtaag ttacaaaata gagaaattct atagaaataa aatgcatcct tttgtattta 60
atcattttat tagattatgt aactactacc aactaacttt aattaaaata agttttattc 120
tctttatata tattcctcat cctatatcac cacttatttt cttagtattt aatgggttcta 180
aagaataatt gttcttgaca aatattatgg aaaacaataa gtgcttcaat tctttcacia 240
attaggaaat gaaagttagg aattttttta ggtttcaaca gcaacaccaa aggtaggaac 300
cacgatataa gggcagttcc atttgattnt gatctcagat tttgtttaca aaaaccaact 360
tgaaaatcta aacataaaat attaaagaac ttgcagacat atcccagcta gctgggaata 420
ca 422

<210> 5062
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5062

tggaggacaa aacanagtag tgtacaagta cttgggtgcta tggcataccg tgctcctcag 60
catttgcttc ggtgtctccc taagattggt ccaaaattgg ctgaggtata atatgaagca 120
aacattattt ttcacttcta aattcctttt aagctataga ttgcattacc ttaacccatc 180
tcagtatttg aagggttga ctgataaaga gtccagaaat atctgggtctt gtccctactc 240
tacttaagta aattggtggt ttcagtatct agaggggagga ataanagtaa ttctttngaa 300
attatggcat anaaaatcat cattcaattc cactctactt ttatatg 347

<210> 5063
<211> 280
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5063

agctntgtcg gattggtctt cgccagtgaaggatcgatg tgggtctgaa aagtggcaaa 60
tttagtcatc ctgcttgac gaatgagaaa attgtggcaa atgaagaggg tgaggatgaa 120
gtataagccc atgctgtgac tgccattcct atatggccaa gtatcccacc aaccaacaa 180
tgtcattact cagccaataa caaaccttct ccttaccac cgcccagtta tccacaaagg 240

caatccctaa ataaccacaa aatgtattgt ctaaagatgg

280

<210> 5064

<211> 306

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5064

tatatactct aatgtacaga ttataaagca agttccactt gatatatgca tganaaacia 60

agataataga aattaaaact aggttgcctc ccaggaagca cttctttaac atcattagct 120

tgacgcattt acctcaatgg gtgatatcat gttttggttc ttacctccag aacctcttga 180

cccacttcca ttacctgtaa gcaaacattt tgttctagag caggcttgtc ttcaacaaac 240

aatcaaaaat caattttctg atcttcgaaa cccatttcca gcttctttct acccatatca 300

actatg 306

<210> 5065

<211> 287

<212> DNA

<213> Glycine max

<400> 5065

ttgagaaaac tcaactttca taactttgga ctcaaagtgc tgattacgga ccataatata 60

tcaagacgct aaaaattgaa cacggaagct cgggcccaat tcaaactggc ataacttttg 120

acttagatgt ctgattgtgg accatatctc aactgccatg attggtgatt ctgatgtttg 180

actacggccc ataatatatc aagactcttg aaattgatta caaaagctcc tcacaaatta 240

aactaccata acttttgatt ggatgtctga ttgtggccga taatata 287

<210> 5066

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5066

tgtaggcatt agaagagaat gcacatatga ttagaagtat gactgaaaat gttagttagt 60

tgtaagattg attgtgaagg aatgcattaa ctgtatcccg gtgagagtgt gatccttana 120

ttatgagaga aacgactatc atttagtact gatttttgcg tgaatctttg aagtatgaag 180
gccatgtttg attgtgatag ccacttagcc aaaaagctga ccatgtgctt gaatgaatta 240
tccctcatatc ctangatgag ttgaatgaat tattgattga ttgaaccagc agcctataca 300
attatctcat gctaccttga cttanggtgt angagagcat catccacagg aagcgcagtt 360
canagcaaatt ttgtc 375

<210> 5067
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5067

agctattctt cgtgggttga tgggttctgt ctcgtaaaat ggcatgatca ctggatgaca 60
tggttctcaat tagctcagtt gcttcttccg gggcttccag ttttatcttt cccctgcag 120
aagcatctag cagttgcttg gtttgtggc tcagcccatc tataaacata ttcaattgaa 180
ttagctcggg aaacccatgg gtgggagttt ttctcaataa acctttgaac ctctccaatg 240
cttcacctag agattcatca gggaactgat gaaatgaaga gattgcagct ttcccttcca 300
cagccttgga ctttgggaag tatttcttta ggaacatttc aacaacttca tcctangttt 360
tcagattggt acccttaaatt gagt 384

<210> 5068
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5068

ntgaagggcc gaaagagact agtcgagagt caaaggtatg atattagagg acggggtgaa 60
ggcttgtcaa aggtcaaaga agagcttgtc tgaacaatta agtaggacgg aagagaagat 120
gtgggatatc attgacctgt ataaagagaa gcaaaatcta gctgcaaccc atgagcaaag 180
actagaggac gagcatgcaa aagtatcggt cctgcaagcg gaaaggggaag caagggagag 240
agtgatagat tcattatata gagaagctat gatgtggatg gatagggttcg cgttcacttt 300
gaatg 305

<210> 5069
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 5069

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tttttattct tacactgtgg tctttacaaa catggcttta taaagactac aacaatctta 60
acaagaggggt tatcataatg ctaacttggt tttctcaatt aggggtgcaa aagtctccac 120
gaaagtactt ggggttctctt taataatacc tccagatagg cgtttaaaaa tccaagcggt 180
tctttatgaa ggggaataatt attcgatact aacatctttt ctttcaactg ggtggctcctt 240
tgggtgcaac catacaaaca ttgtttgttc aatgttcgga acaaaaaatt gttgaataaa 300
taagcgttgg gagggatcgg tttacatttc acactcttat aaccgctggt tcgtatattg 360
gtacaaactt ttgtggtggt aaggaaaatg taaacaacaa tcttggtctgc g 411

```

<210> 5070
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5070

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tgtgggattn tgtgatagtg attnttccga agatgttgat gatagaaaaa gtactaccag 60
atttgtattt tttatgggtg attgtgtttt tacatggagt tctaagaagc aaggcattgt 120
gacactttct acttaatagg accttcataa ctcttcagat gagaagaaga gaaactatat 180
gtgatggctg gtatattgga gatcatagtc ttcttatagg gtgttaacct aataggattc 240
tcattactct ctaataggcc aacactgaca tctgctcggt taagtccata tcatttgatt 300
ttgtttttga ttgtctaacg gaggatcatt tatttgatca ataagataaa ctcataatga 360
taat 364

```

<210> 5071
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 5071

ctgcaagctt ggatattgta atgttttctt actaattgtg gttatttgat tttgggtatta 60
 attttcttta taataaactc actcctcgca attttgtacc gtgtgggttac tgtgaagatt 120
 gccaaccttt gttcgtggga gtagaatgac aatagtagag tacaagaagt gagattcttt 180
 tgtgaaaccg ctgaaccgac gtgatgacgt tggattatth ttggaagagag ttgtgttttg 240
 ttaatcaatt cctccatagt tggttccatg attcttttta ttgacttaaa gatgtaaaac 300
 acaaatttaa ttatatgtat gaacaaattt actttctatt atgtgaatga tatgtactga 360
 gttactatac ctatatatat atatatatat atatatatat atattcactt 420
 aagtaatgat gcgttggttg tgaatgtata t 451

<210> 5072
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5072

ntcccttcat ttcnaaattt annaaattgt ctcttttggt ttcttccatt tcatcagaac 60
 aacaagctag tgaggggaacc ctgttccaac aataaaccat gtatttcatg tcagcataaa 120
 aaaagaatcc aaatccacaa acttctgcat aacttgtcat gactcaaagc agcaataagg 180
 cagcttaatg agacaatatt caaccattat attatatcaa ttggaacgcg gagggggggg 239

<210> 5073
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5073

cgcgatgtnt agtttgaaat cgtctcgtac cttggatcct tagagtcacc tgcngctgca 60
 gcttgtctag cgtttatgag agacagagac caacatgtta actatcatcg cccaatacga 120
 agaagaatta tgtctagcca cggcccacca acataaaaac gcggatgaat atgctcaagt 180
 atatgccgaa aaaaaggcta gaagaagggg gatccactct ttacaccaag aggcaaccat 240
 gtggatggat cggtttgctc ttaccttgaa tgggagtcga gaacttcccc gattgttaac 300
 aaaggccaaa gcgatggcag acacctactc ccccccgaa gagattcatg ggcttctcgg 360

ctattgtcag catatgatag acttaatggc ccacataatt agaaatcggtt aggaaacttg 420
 tatggctctct cagaccttga ctggatacga cttttttttt tttttttttt tttttttttt 480
 tgaaaaaaat gagatggccc attgttctac cn 512

<210> 5074
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5074

nggcttagca catgaagaga tggcgcttag cgcaagggtt ggcctntgcg gataagcaat 60
 ttgaaaattt tctaagtcatt tttctactta tctcttcaca cataatttta acaacccttt 120
 ntgttcattt ctaaacaagc tgaaatcaat cacaatcaca agcaagatga cctaactaca 180
 tgcaagaaat aaaaatgaag atagagaagg gaaagaaaag ctggggttgcc tcccagtaag 240
 cgcttcttta acgtcattag cttgatgcat catcctatta tctaggatcc aataatgttc 300
 ccacttcaag gaccttcttc ttaggttntc tttctcctt cacatgaact ntanaataga 360
 cattccggtc aggtggctct ntatcttcat gaaataaatc anagctgatt ttctaattct 420
 ctatgcccatt ntgaacatc ttctttccca tatctactac acag 464

<210> 5075
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5075

agcttgccgc ccagctcgcc caggcgagca aggttgcttc ctccagaagg aacggcccaa 60
 gtgggcctgg ttgctattta caccctcatt tttactaaat gcacccctt tctatttttt 120
 tgtaattctt tttccgtaac gttacgaaac tttacgaatt ccgtaacgat acttattttc 180
 cttctgcaag gttatgaatc cttacggatt atgtatttac tctnttttag ctntcgaaga 240
 agttacggaa acccccgat tgcgcaaaaa cacctctttt cgacttcgac cacattacgg 300
 aatttcacgg atcgcgcaag cct 323

<210> 5076

<211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5076

aaagttaact anatgccttg tgttacctgg ttaccaact ggccatgaat taaaaatatg 60
 cacctgtcgt cagactctgt agtttatgct cctctaccga ccaccacaca gacctttgtc 120
 cttttgtgca acaatctgaa gcaattgaac agcctaaagc ttatgctgca aacatctaca 180
 atagacctcc tcaacctcag cagcaaaatc agccaccaca gaacaactat gacctttctcc 240
 gcacacgtac aatccagggg aggaggaata ttccaccgta gaagtcgaag ctttcttaca 300
 accgccataa aaccacaacc ttattttata atgtactggg ccagcagaca taagatcttc 360
 gctatctttt actcacagcg gaatcgccct ataacgaaat cttgacgctc cgccacctc 420
 actg 424

<210> 5077
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 5077

agcttatggg agttaactct ttcactgtgg cctcgacata caagctttta gaaggactac 60
 aacaatctga acaagagggt cagcagagtg caaacttggt ttccaaattc tgggtgtgcaa 120
 aagttccaac gaaagtactt gttttctctt ggaaattact ccaagatagg cttccaacag 180
 cacaagcgct ctagaggagg ggagttatta ttcaagacta caatttttca tgcaaactgt 240
 gtggccttga ggtggaaacc aacaatcatt tgttcttact atgtccggtg attaacagat 300
 tgtgggaaag agttatggca tgggtgggaa tggattacaa atcccaatca ta 352

<210> 5078
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 5078

tggatttcct tttagtaggg aatctatcct tcctaagatg gagccaaacc cagtcaccct 60
 tattaagaac tagctctttt attcctttat tgcctttagt tgaatacacc tttgtttggt 120

tctctatattg gttcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
 cttctttatg tataaaagaa gtgtctagtg ggaggggaat gtgtctagtg ggaggggaat 240
 gatggctaac tgcgacatcc tggacatttc ta 272

<210> 5079
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5079

agctntggca cttgtcttca cactaatttt gaattgaaat ttccaattat agaaataaat 60
 ttgagccaaa acaacaagca cctttccctt tcaccttttt tttctggata ctgattttcc 120
 tgccaacatg tgcgattttt cgtatttttt ccttttatcc aaatcacttg tttctttttt 180
 tataactttt ttccagatgt ctagaaaatt cagtaaaaat ttcagctcan aattcgaggt 240
 aaccaattct cagtaattnt tacaagtttg tatgtccaag ctgccagcac cagcgatttg 300
 tttctttaaa catggtatat ngattgcctt gggcttactt tcaaccttcc tatgtatgtt 360
 gaactcacta gtattgttta ccacagnntt aggggtgttca atatttact 409

<210> 5080
 <211> 258
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5080

tgccacccag ctgcgccagg cgagcaaggt tgcttctctc agaagcaaca gccttctgga 60
 ggaaggatct ggaaggccca agtgggccag attgttattt gcacctctcc tttntactaa 120
 atgcaccccc cttctatttt tttggtaatt ctttttccgt aacgttacga aactttacga 180
 atntcgtaat gatacttatt ntccttccgc aaggttacga atccttancg gatatgtatt 240
 tactcttttt tagctttt 258

<210> 5081
 <211> 263
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5081

tggggccaaa cacaccaa at gattataatg atggatggct caaattctca caaaggtaaa 60
 atcattactt tcaaaactat catgacatgt agagaaaaat caaggatttt cagtcacaaa 120
 atgtcaagaa cttttatttt tcaaacaatt acccatttat ttcttgaaca tattctataa 180
 ttcaaagaan aacatgcaaa gtcgtgctg cacacgaaat tgacccaaaa tattaaactt 240
 aanatccgac gaaactaaca aca 263

<210> 5082
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5082

tgtgtcacac tttcaattgt cgaagctgaa tacatagctg caagaagttg ttgtgctcaa 60
 agtcttttga tgaagcaaca atgatgtaag ctccattgga gcttgtaggc ctaggatctt 120
 cttcatcaat ggattccttt gcttcttga agatgaatgg cagcggaatg gagaaaggaa 180
 gagagagagg agacgccact tcaaggagaa gatgagtcta gaagaagctc accaccatag 240
 gaggccatgg ataagagctn ggaggaagaa agagatgaat gaaggagag ggagagaaga 300
 agcacgaaat ttgtgctcta aatgagcttt gagatccgaa gtntaatatt caaatg 356

<210> 5083
 <211> 214
 <212> DNA
 <213> Glycine max

<400> 5083
 atatccctca atttatctca ttttacatgg tatcaccaga gaaaatatga ggctaagctg 60
 aataaatgga accacagaaa catttcgatg gctgggagga tcaacttaat caatgctgtc 120
 ctaacagcat tgccttttgg ctatttggta ttcttcaggg cccctataac agtgattaat 180
 agattaattg ccatccaaag gcactttctt tggg 214

<210> 5084
 <211> 329

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5084

taccctagat gacactcatt gtacaaccaa gttcataact tagtcacttt taaagtcctg 60
ctgactgagt acaaagtgac ttgcaaccgt ttggtgagtt attaagcact cacttgatg 120
tcaaattnta aaatcatata catatcta atgaatttca tgttaattac aggatgtgcc 180
gagtacctgt actcatttat gaaagctgta agattcaccc atatgaactt gaaagagact 240
acgaagtata ggataattta taatcattgt aggaagattg caaacattgg aaatggatgg 300
aggaatttca taatcacaaa attttctta 329

<210> 5085
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5085

agcttggtgt cattaaatct tacatgaatg gccttttcta cagtcaaggt tctggagtta 60
tgcactctgt atgccttgga caattcaaag tattcaagta agattctaga atcacactag 120
gagtcaaact ttccaagttt atccttggtg ttttaagatga aacgctgaca tccaaatgag 180
tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240
aggccttatg taaattttgt tctataaata ccaggaaaca tttacagctt caaccataa 300
atctttggga gttgagtgat cgtaaagcat tgttcatgcc atttctgaa gagatatnt 360
tttctctca acaacttcat tctgttgtgc tgttcttga gtgggaaaaa tatg 414

<210> 5086
<211> 311
<212> DNA
<213> Glycine max

<400> 5086

tggtgtgtcg tccccgttgc tgccataacc catttctggc tcatatccat cccttaacat 60
aaccgagcc accatcaaag cgacaccaga taagcgtggc tgcaccagaa gagattccac 120
atatgcaatg ctcacaattt ccaatgcttg gaaggatgtt tccaatgact catctacagc 180

<223> unsure at all n locations
 <400> 5089

gaagtgaat aattgattat gaaatgccga acaaagaaag aattgaatga gttaattgat 60
 tacccaattt gcttatcgat taaaattggg aaaactatta atacctttgc ttattctcac 120
 tacaagaaaa aatgatttta acgagggtta ttttttgcct taaggagggg ttaaaccccc 180
 cgaaagtatg gtacctattg gtggtgttct cattggcaaa acatccacga taaatggttt 240
 accaatgggt tttgtgaacc ctttaaaaca caagaaatac ttgatgtgtt gaaacccttg 300
 gtaaatacca agggttatta acccctatta acaccacaat cattgctggc gatttaaaac 360
 ccttgttctt atanggggtt aaattgccgt atacatttat t 401

<210> 5090
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5090

tcaataataa catagaattc ccaagtatat gtagatagtt tctgcattct accagacaat 60
 ttttttttag aaataagcaa taggatgctt gttttggctt aacacaacac caactcccct 120
 ccctgaagca tcagtttcta atacaaaaag tttattgaaa ttaggaatag ccaagacagg 180
 tgcagaagtc atggctatct taagtttttg gaaagcctgg gcagtagctt gaccccat 240
 gaaagagtcc ttcttcaata gaacagtcag aggtgttgca atggtagcat aggtcttaac 300
 aaatcttcta taataacctg taagtcttag gaagcccctt aatntcttta gattcat 357

<210> 5091
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5091

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 ctaatctntn ttatatcatc aaaacctgca tgatttacat tctccccctc tgtgatgatg 120
 acaagcatta tccaaggctt gatctntttg acatcatcaa aatcttcatg atttacat 180

tccccctttg tgatgatgat aaccacctat aagtgatgag caacaacaaa gaaaaaatat 240
ctatttgcac atagtttaca tcccccttgg ttttggaatg cttgcttata tgagaccatt 300
gaagatttca tattcttcat atataaaaag tgtctcataa agatagacat ctttccttct 360
aatattatctt gatattactc tcccccttgg cccatcaaaa caa 403

<210> 5092
<211> 433
<212> DNA
<213> Glycine max

<400> 5092

ggttaatata ctataagtgt catgaatctc tgacataagc ttcaaccaat taacattggt 60
cgaatgacaa ctgtagtagt tgcaccgcac tcacatacgc tggccaccat cggttgctgt 120
acgatcctat cggctatagt aacggcatgc tctatgcttc ttctgttata gctacgggtgg 180
cagaaagtct aacttttgaa tccacaaaag gaggatctcc atatggtgct ggagtcttgc 240
tcgagatggc agaaaacaag cacaggaaat ggaactggag cctgcacagt atcatgcaac 300
gattataaaa ctagcccata aatcattaac cctctaatac acatcttatt gactaaacaa 360
accttgtgac ctcaaataca ctcaagacgg ttgcttaaac actctaatta aaagcggcag 420
tgaatcatgg ttt 433

<210> 5093
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5093

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catgtttcaa taggtattac ttaagtacta ttatttctaat tttaatatata tacgcaatat 120
ctagtgaat atatgcatgt ctgaacctat ttctgggtcca actaaagctt aattaatact 180
tcggtaataa aatgtttaat actattatga cttatcttta taaaaaagac tgacaataat 240
attattttta aaaaactaatt atttgggtact gcgtcaccca atattgatta aacttattaa 300
acacaactca cgcactttat tatatcgtat gatatgagat gtgctacaag acaaaaatat 360
caaacaattt cctctgatgc ttacatatgt aatgattctt cacatgctgt ctatgctatt 420

gat

423

<210> 5094
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5094

agcttctatg agaagtttct caagacagct ttcttaggaa gctacctaata ctataggtag 60
aagcatgtgt aacacttggt gtaactctga tgaatgagag tcttgtgaga catattgcaa 120
agttccactg ctctacctct tttattcctt caatntcgtg ctccccctc tctccttctc 180
tccctctttc ttttctcca ttgaagcatc ctctccaagc ttcttatccc aggccactc 240
ttgtagagaa tcttcatctt ccatggctta ttccctaggg gatggcgcct cctctcacct 300
cttctcc 307

<210> 5095
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5095

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atttcaacct aacaaaataa cttacaaaaa atgtgtgata ctacagaaat tttgaaaacc 120
acctaacaaa ataacttaaa aaaatatgtg atcttccaaa accacctaac aaaataactt 180
acaaaaataa atgatatccc agaaattatc taaccacga aagctacaac gaaagcaagt 240
gcagcagcca aaacagctga aaaatatggt gaaggagggc tgtattttaa gatcctaaaa 300
cgccaacctc atttgcgcca ttttctactc taaaacgcta acatgatttg acctccagac 360
ccctaagacg ccaacattga aagctgctcc tgctttccaa agcta 405

<210> 5096
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5096

agcttgcatg tgcattgctga gcggacatgc atagtacaat tggcttaagt gaccacacgc 60
taagcctgca aatgcgcgct taacgcacat ccacgataaa tctgacttcc agcttggttt 120
cttgactaa gcatgcactg gcgcgctgag tgtgctgctc caattcttca tacatcttcc 180
attcttctgt tgatgcatct aaaaattcta canaataaaa canaacattg tanangtacc 240
aactntagca ttcttaagat aagaactcaa agaaaatcta aattcctatc ttttttagtc 300
aaaagaagta tcaaaagaga agaaattaga taatttctat ttgtatt 347

<210> 5097

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5097

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atgggctaaa ttcctcattt ggttntgatg aaaaccccat ggatcaatgc atataccaca 120
aggtaagtgg gagtaaaata tattctctta ttttatatgt agatgatatt ttacttacag 180
ccaatgatca agttttgcta cataagggtga aacaatttct ctccaagaat ttgacgtga 240
aggatatggg tgatgcatct tatgttatcg gcattaagat tcatagagat tgtagaagca 300
ngcttcatga tgatgaatca agtagttttg atgatgacaa aaagcccaca agaatgatgt 360
caagattgag tcaacaagtt caagatcaa 389

<210> 5098

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5098

ggatcttaag cacctgggct gcagctataa aacaaaatgc ctnatcattt tcaatatgca 60
tgtgaattan gaagcatgaa caagaattaa gccaaaggcta ttgtgcaagc aatcaatggg 120
gcaaaacaca caaaagatt atgatgatgg atggctcaca ttctcacaaa ggtaagctta 180
tcactttcaa attgagcttt caaaactatc atgacatgta gaggaaaaac aaggatttca 240

aatcacacaa tgtcaagaga cttttatattt cagaacaatt accanagctt gatttgtgag 300
 ttgatnttag ccttggtttc acttttgatt attagtcaat aattcaagga aactttcana 360
 gaaaacgnct gattggattt tcttgataaa tttatatttt ttc 403

<210> 5099
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5099

gcttatgctg caatattaca atagacctcc tctacctcag cagcaaaatc aaccactgta 60
 gaacaattat gatctctcca gcaacagata caaccctgga tggaagaatc accctaattct 120
 cagatgggtct agccctcaaa agcaacaaca acagcctgct ccttccttcc aaaatgttgt 180
 tggccaagc agaccataca ttcctccacc aatccaacaa cagcaacagc ccctgaaaca 240
 gccaacagtt gaggtcctc cgcaaccttc cctcgaagaa cttgtgaggc anatgaccat 300
 gcagaacatg cagtttcaac a 321

<210> 5100
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5100

ttgtcagaat atgattatta aacacacaaa atggaagtac taagtattta ttacctatac 60
 ttaacataaa gtacttataa cactacaaac taaccataaa ttgtggaagt ttgatacaat 120
 ttacacaggt ttacacaca aaagttagtc gtattcctgt tgtatggctc cgcctcctcc 180
 aacgaagtgt ggaaattcat catccctcag ctgcccttgt ctctgtgtga ggaatgacca 240
 tcttttgatg gctcgaaac gctattgatg ttccacactc tgaaatcggg gtttgtcaaa 300
 gcctgtttcg acttgtgggg ccacatngga atcctcttca atgggtgcctg tgacatccct 360
 aaataatgac tgggtgaata gtaataaatt aaata 395

<210> 5101
 <211> 445
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5101

ctgcagctta ttctttntac tcttgtgcc agtctttgat gccacatggt tgaattattg 60
acagcctccg taattgctac catatcctca tctacaatca tgtaaagaga tcctcacttt 120
tttccacgag ccccaacgag attgcctttt gttaccttcc aagctccatc tccaaaagtg 180
gtgtgatgcc cctcatcatc ctaccatcct atagatatta aatttttttt taaggcagga 240
atatgtctaa cattgtgcaa tgtccatagg gatccactag aggtcttgat gttgatatca 300
ctntttccaa caatgtcaag agattntcca tctgcaaggg aaactttccc aaatcttcca 360
gaaatatagt tagacaataa atctatagag ggagtagtgt ggaatgaggc acctaagtcc 420
attaatcatg aatcaacggg actat 445

<210> 5102

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5102

ggacagtgga agagctactt tgctaaaatc tcttataaag cgctgtata atcctgcatg 60
agtaagataa gatcgcacct ctcacacgca agaggggtaa tgcaattgtg aaataacaaa 120
aaattttgca ggatctactt caatgccctt attggaaata atgtggccta aaactatacc 180
ttgctcaacc ataaaatgac atttttcata atctagaaca aggttagttt cagtgcattc 240
attcaaaacc ttttccagac tatccagaca aatatcagaa gagtatccat atacagtgaa 300
atcatccata aacacctcta tgcaattttc tcaaaaatca ctatnaatac taatcatg 358

<210> 5103

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5103

agcttgtacc acatttcatt acatagagaa gacaaatagc aaactacacg ttagccaccc 60
atgaaaatgg agaagcaaca taactttcag ttaaatacca ctatttgcta gcttgggtca 120

cttcctagaa tacattgaca aatacttta ttataagttg atttatttta tatagtaagt 180
tagcaaaaat gcttgaaatg gtgtaagggt gattaanagg agacaatgtg tcaataaaaat 240
ttctaaatct agcttatctt ccactaaatt ttggtggttg ccttggtaca atagaaagtc 300
gtaca 305

<210> 5104
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5104

agcttccttn taatgcatca caccacgtgt gccanattac tttccaagtg atggacataa 60
atcctgecta cagctgctta ttaggttggc cttgaattca ttcggttggg gtgctccctt 120
caatgctaca ccaaaagttg aaatttatgg tggaaggga attgattatt gtctctgggg 180
aagaagacat tcttgtgagt tgccttctt ctacgcccta tgtggaggcc acgaaggagt 240
ccttggaat gtcctttcaa gcattagaag tggtagcaa tgcttacatg gagtctctt 300
cggtaacaac atgctcatct ggtgccatat tgatggtagc tcgggtgatg ttgggtcatg 360
gatatgagcc tgaaatgggt ttc 383

<210> 5105
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5105

agcttgatgt cattcanaag acactatgtc gacctanatg acgactaaac atgcattntt 60
tatgtaattg tattcattat gcgatataat ttgttgtaac caattactaa ccaattaata 120
ttattaagta ctggtttggg taagcaaaaa aattgttggg ccaacaaaaa tcatttacgc 180
gtgtagcata catcattgtc ataattgaca acacataatg acatgcatgc gtattaaagt 240
ttgagttgag gaccaacaaa gaactgctga aggtgttagt acaatctaac tactggaaaa 300
aatatggacc aatagaaatt ntagctgtct ttactaaata tgttgtgaaa atcgaaaacg 360
atgtcattgg gaca 374

<210> 5106
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5106

agcttagatt tatcaagttt tattntgagt gtgggagggg gtagaatatc atccacacca 60
 ctcaatattc aagtgaaaag accaagagaa aagaanaagg aggcgaaaga acatttgagc 120
 ctcttaaaat tcttcaaatt agttagaaca tattgattag tgtttgaagg aaaaagttga 180
 gaattatgtc agcatcaaca taagttgaat gctnctgat actgcatcaa ggatacttga 240
 caacagactt agaaccatac cacttaagct tcaactgttt ccataacatg agttaataat 300
 caagaaggta aattaagttg agtggtgaaa tgatgaaata gatagatacc tctactctat 360
 caaacatgtc atcaagtatc aaagggtctc cactgtaata tgcatacag 409

<210> 5107
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5107

agctatagaa gatgttntgg cttttacatg cccaactcct ttgagtggca tttgtatcgg 60
 tggttaactc tattgttgta tcttagtaca ttagatatct attntgcatt gtgcaccatc 120
 ataatgcatg tgtgtgtgaa gaaaattttc taagttagaa aaatttcttc aaaggaaaaa 180
 actntgtttt aatcgattat agagggtgtg taatcgatta caacaagcta tttgaagctt 240
 aaagagttaa gtctcgatc ggtttaattg attacaatag tactttaatc gattaccact 300
 attgttgaga caatgactga ttntttcang agtctct 337

<210> 5108
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5108

agcttgagat gaggaagtgt agaaggggtga aacttcctgc ttttattcgt tgaccacaga 60
 gtggtacctg gagatatgtc ngcggggtca ggagacctg nggacgtcag gtgggggtgct 120
 atagcccaaa accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180
 acctgtgatg tacctataca ggcgagctcc tggcagtcag cagataanag gaacaaagac 240
 caccagcaa ggagacttgt gtggtggct 269

<210> 5109
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 5109

agcttatcaa ggttgcttaa tatctccaac atatttactg caattaatcc ataataatta 60
 taattagctg acagtcggat catgctgata tatatcaata agttaaatTT gatagtgata 120
 ctgttgata tattaacta cattgagatt tggcaaaagc aaaaagctat taaacattgt 180
 cttgtgtgc attctcattc aggaacagg tttcaacttc tgtacaaaac agaaatttct 240
 tacaataaaa gaagacggct tctgttcaa attgoccat ctgatctgtc tgtgtctcca 300
 ttagcatgat ttacaggtca ttcaagtgac acgtgacagt taggaactca tccttcttac 360
 at 362

<210> 5110
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5110

atctctgagt cacctgcggc atgcaagctt gctcgagata atagctcana cttaggaatc 60
 cagganagcc ccatctttaa agttctaatt aaggtagat taagaatttt aaatgcaaat 120
 tacattatta taagtaatat tgaataccta attaaattat attttttaag gaacctaaat 180
 aatctaatta gatttattct atttaatttt aattaatatt cattagttaa agttgatctt 240
 agttgattgg ataattaaaa ttagtttcaa gtgagaataa ggacttacat tntttgttta 300
 agttaaaatc attctanatt actatgcttg gagaacctga aataactaat taatacatnt 360
 tttatgaatt aaatanacca cacttatant tctattaaat ttgagttaac tttttttaag 420

agaaatttga gttactaagt a

441

<210> 5111
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5111

cttcggcatt acatttaaac tcgatccatt gtcgataagc acctttgcga caacatggtc 60
catacacttt accgacacat gaagagcctt gttgtgtcct ctcccctcta cggaatctc 120
ttcttccgca nacgcgatat aattgttggg gggtatatga ttaacgatgc cttcaaaacc 180
ctccactgag atatcgtggg ctacatgggc atcattgagg acttttatca acagcgtacg 240
atgaggctcg aagtttatga gcagttcaag caacgagatc cttgctggag ttntattgag 300
ttgctcgact accttaaact cgctttgtta gatgaggcga angaactcat ggngctcttc 360
caaagtcacc gtcttttctt gaagaccttt ttctttcacc cctctaccac tggggatcta 420
ctt 423

<210> 5112
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5112

tctaacacct aattattcat acacaccctt agcaactatt ccaattntta ttagttaatg 60
tataattagg ctggtttgtc catcggatta tataacaaat tgacaaacga gggataaaca 120
ttaagttaaa taatattttc tcagattttt ttccaattaa ttttggtaga gaaatgttaa 180
taaatttctc actttccacc tagctcctat cctaccatag ttnttttttt cttttctgga 240
gttggtttgc tttttactga tataacttgc ctaatattag acattgacac tcttgttttt 300
caaagcgata aagtatgtgc atgttaccca actacaagtg aaaaccaatc tcantgcaat 360
atgaatgaac taacatttcc t 381

<210> 5113
<211> 285

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5113

tattatgagc ctctcttggt atttattttg attgggtacc ataatgggat gttttttacac 60
ttcctttgaa aaaactttga aaatgagatg ttgtaaaagt tattctttta taaaattgat 120
attgttggtg ttaccttagt tgaaccccaa tcacattggt gtgatcagaa atttanaatg 180
acttctcttt gatgtagacc ccaaaacacc ccttattccc tttataatgt ngaatgggat 240
ttgaccccgga atgttgatac taacctttgt cttgaaatgt atacc 285

<210> 5114
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5114

gcttgctaac ccatggaagc tcctaatac ttccacactn tnntgggtgg gccattcgtg 60
gatggccttg atttccaag gtccacatgg accccatttc taccaactac aaaacctaag 120
aaaactatat tatctacaca aaaggtagac ttctctatat ttgcatagag ggtgtttttc 180
ctatggactg aaagaactta cctgagatgt cctaagtgt catctangct cctattgtac 240
actanaatat catcaaaata aacaactaca aatctaccta tgatatccct taagacatga 300
tgcataagcc tcataaagggt gcttggtgca ttagtgagcc caaaagggtg tcttgaaagc 360
gattttcact catacccttn tcacttgatt tcggatacca cttt 404

<210> 5115
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5115

agcttatgag cgaattctga tcagaaagga ttgttgtgca caacagagga agctaattaa 60
gaaatcctat gatgcaaagg cccaactctt ggaggtatgg atttattttt aataattgtg 120
gtatactcac cttttttgag gtttatataa aaggagatta ggagaatgag agattataat 180

gtgattctac aaacatccat gaacaacgct accgataatt gattgtatat ggattggatt 240
 ttcaaacatc catgaacaac gctactgata attggtatat acatactatt aatttaatta 300
 caaccacctg taacatgcc tccaacattc cctgatctat atacaanaat aattattcaa 360
 gcttaa 366

<210> 5116
 <211> 596
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5116

cacttccacc ctcgattcgt gatcgggtgat gatatcgact gtacnctcca ttccaccact 60
 gtttgaccct gtgagcaccg tggatcctca tagacgacct ggcagcatgc cagctcgang 120
 aatatgggga ccccccatat gttggnacta cagcggcgaa cgggcagaag gagcaaatcg 180
 acgtttcagc atcacaagc acgcatggac tcaccattca caaacggccc gaccacgtg 240
 ggctcacgaa ctaccacaaa cacatttcct cagatcttcc aacaccgagg ccgcatcgag 300
 acctgctagc atccacctca cttctgcact agcatacttc atcaccaagc tctatcataa 360
 actacaggac agggcagacg cacaatgtc ttgcctgaca caaatcaaga ccacgacgtt 420
 cgtgactctc ataccogaag agcatgcgct tcgcacaaaa tctgtcactg gtggaccgac 480
 tcaactgcttt aacgggtgagc cccagtcct tatgattaca ctttgagccg ggggatcagg 540
 tcggaatgtg cccaaaacca atatgaacta ccgttttccg tgcagatgca tgaacg 596

<210> 5117
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5117

gcttcatgac aatgaatcaa gttgattctt ttatgtttga tgatgacaaa nagttcaaga 60
 gaatgatttc aagattgagt caacacattc aagatcaaga ttaatttcaa gtttcatgag 120
 aagattcaag attcaagaaa agtttgattt taagattcaa gagaagatga attcacaatt 180
 caaggaaga aatcaagaag acttcataag ggaattattg ataagatttt tcaaaaaaca 240

aacatagcac agtttcgttt ttcaaaagag ttgttctcan aattttctaa gttaccagag 300
 tttttactct cttggtaatc gatataatt acctataatc gattaccaat ggccaagttt 360
 aattttcaaa acttttaact ggaatttgca cgtctcacat gtttcttaaa tgatgtaatc 420
 gattacaata tatt 434

<210> 5118
 <211> 301
 <212> DNA
 <213> Glycine max
 <400> 5118

gcattatggt tcacagccaa tgtgtccac aattgacgaa aggaattggg tggagatgat 60
 atgaggtaaa caaaccacag ccacaggata ttgtataaca aagcaataaa taaaaactgc 120
 tacagaaata aaaatataac tttcaagaat aagcacagtt tatgtgtgtt gttgcttaag 180
 ctacatgtca tatacaagta tggcatatca ttagaagatg gaaatacata ggaaaagggt 240
 gatctactga tgaatgctct cctacaacct atggtttgca tcttacgaaa acacatgaat 300
 t 301

<210> 5119
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5119

agcttttnga atttntttt tattttacta ttttanaatt cagaataact attattttcc 60
 gtcttttaat taatttacia gtgaattttc aatactaaag taatggttca tacttcttaa 120
 tctaacaact attntgatac attattatth tttattttac gaaaattaca aacaacaaag 180
 attaattaaa aattagaaga catataaaca agttgcatag aaaaataata cggtagattn 240
 tacaaaagtt taaactgttt gacacttctt atttactttc acacataaat acaacaaaaa 300
 tgtgtattat cttgaaaatg attacaagta tgacaactta acataagttg tctatcacat 360
 taatacaaat cggaatacct aagaagtata taagaaatga taaattaatt ttcacaagag 420
 ttctctcag tgtcaccaca agca 444

<210> 5120
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5120

ctggcaaggg tttgggcagt gtattttgag ctctaccaga tgggactcaa ttagcagtga 60
 agaagttgga aggtattgga caagggaaga aagaattcag ggccgaagtt agcatcattg 120
 gaagcattca tcatcttcat ttggttaggc ttaggggatt ctgtgctgat ggaactcata 180
 ggctccttgc ttatgagtac ttgtctaata gctccttggg taaatggata ttcaagaaaa 240
 acaaaggtga gtttctgttg gattgcgata ctangttcaa tatagctctg ggaacagcac 300
 aaggacttgc ttaccttcat gaagattgag actctaagat tgttcattgt gacatcaagc 360
 ccggaaaacg tgcttctgga tgaccacttc atgcgcattg ttcggatttc gactggctaa 420
 ctcatg 426

<210> 5121
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5121

agcttgagga ggatgcttca atggaggaaa atattgaggg agagaaagag agaggnggga 60
 gcacgaaatt gaaggaagaa aaaggagag aagttgaact ctgatttgtg tctcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggttagc 180
 ttccttgaga agctttattg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctag agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag 300
 cttccttaag aatattcctt agaagctag agcttagcta cacatacctc tctaataagct 360
 aagctcacct ncttgagatg agaagctaga gcttagctac acancccta taatagctaa 420
 gctcaccnc atg 433

<210> 5122
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5122

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agcttcgggc tgctcaattg ctccagggtg ctgtatggaa gggctaaggt ctgtatgggtg 60
gtcagcagag gagcacaac cgcagaccct tgcgacaggt acagattttt ggttcaaggc 120
cagctggggt accaagttaa ccaatgcgtc cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagct gagttttag ctacctcatg cactcctcta atgactatcg catcatttct 240
ggcactaaac tgctaggagt tggaagccat cttctcaatt aaatttctgg cttcagcagg 300
agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggagaagacg ctgctccgaa atctgatggt gagagcaact 420
ggcacatagt tntttatata tcttccaata ctcatatc 457
```

<210> 5123
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5123

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tgacccaaag ttcaaagatc aagaanaact tcatgataac caagatgatg atctcaagaa 60
tgaaagaatg agttcaagat gttcaagatt gaatcaagaa cactttcagg ctcaagagga 120
aatttgattt ccagaatcaa gaatcaagat tccaggttca agcttcccag aatcaagatc 180
aagattccag actcaagatt caagaatcaa gataagtatg agcaagtttt tcacaaacta 240
agtagcacat ggatgttttt caaacttggt accaaagagt ttactctct ggaatcgata 300
ccagatgatg tatcgattac tatagcaaat gttttgaaag attcactgat ttacacggt 359
```

<210> 5124
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5124

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ttgtaatgga tatgattctc tctatttnat atggntaaac attagacttt gaatgtatca 60
ttcaacgagt gcaaaaacca acttatttaa aatcaaagt ggactatcgt ccaatgctag 120
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taaaacagag ttttcaaaaa ggtcttcaag tgcagacttg tgcaacaaag tgtatcaaaa 180
tcaacacata agaatactaa tcaagtagct ttagagagaa gtagaaacac tgggatttat 240
accaattcac tcaaacaaag ctatgtctag ttttcctttg cacatcagta aagggttcta 300
ctaatacaaaa cttgaatata acaagcttat gtaccaaag cgagtatttt acagcctcta 360
ggcattg 367

<210> 5125
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5125

agcttctgga ggaagcctct taatgaagct tctatagaaa gatacatgaa gcttcctcaa 60
taaaaacgct gccccgtctt cgtaaacga tggatcttct cgaaatttgg tcttcaactt 120
cacaagacac ttgtgcatga tctaacggat ctttgagaag atgtctggag tgtgctagaa 180
gcttccgttt ccgagagcat ctcttattta agcatttcag cctttgcttt cgtgtagctt 240
aagaaaaacg tcatttcttc ttctttcttt cttccanagc catttctaaa gttccaagaa 300
ctttctccat caccacagc caccattagc caccacanat catcattgtt ctccattgaa 360
naccacacc gagaggaacc cttcacgaa cggaatctt 399

<210> 5126
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5126

agctntgagc aaattcaaac gacaataact tttgaatcgg atttccgact ttgtctcata 60
gaatatcgag aactcgtaa ttgaaaacgg aagttctgag aaaaatcaaa cgacaataag 120
ttttaactcg gatgtcctat tgagccctgt catatatcga gacgctcgta attgaagacc 180
gcagctctga caaaaatcaa acgactataa tctgtaactc ggatgtgcga tagagaccgc 240
taatatatcc ggactctcat aattgaaaac taaagctctt aacaaatata aacgactata 300
caatcttgac tcggatgtcc gactgtgtcc cgcaagatat acagacgctc 350

<210> 5127
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5127

 agcttagtaa agctaggcac taacaagaat atgtgaactc ttagaatggt tatataagac 60
 aattaatcca gggtagagg gattcggcaa gtaccaatnt gtctccacaa tggccaattc 120
 ctcaattgat aaaaatccaa attgagaaag atttaatcct ttttcttgga aaattaaaat 180
 attttttatg agacaaggat acgaacatag aatcatgtaa ttgattttct ataaagcacc 240
 tatccccaat caactaaaaa tggctaaatc acttanaagg aagaattata tacgcaaaat 300
 atttgggttaa atatattgaa aacttcaata aattttcaac tacatctctt tctttaacca 360
 caaccaacat aattgagtgg aatatcaaac anaggctgca caactttcac caactacatc 420
 aactcttttt acaacttctt ttccacttat attac 455

<210> 5128
 <211> 320
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5128

 agcatgcaag cttatagnaa tacagcacc ttttatttct ggatataaca atcctccccg 60
 ggggaagaac ttcatgtatc atataaacac ccctttaata taaccgatat caaatgaga 120
 taggtaacct tttctttggt aaattcctat cttttgggag ttgtagggga agccaaaact 180
 ccttctacc acgtacttct aaacaacgga gccaacgctt atattaacaa aaaaatacta 240
 atatattaat attaaaaaat atgcttttta tcttcttgac tctgaagggt actagctagt 300
 attattcaat cacttacgaa 320

<210> 5129
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5129

agctntgagc cgaaatcctg actcaccata atccttacc tcggaagcaa aaaaaggaga 60
 agaaaaatct ccaatcacag gaaaaaagac tagacagaaa attcccaatc aaagaatggg 120
 agaaagaaaa aaagagaaat aaaaagacg atagctcctg gtcaaagaaa ccagaagaaa 180
 tgtgtcggga ggtccttgga ccagacgata tctgaacaat gcagaattgt caccaaata 240
 acaaaagaaa gaaaaggaaa ccatgaccta caagtgggtct tctccctttg attaccaacc 300
 aaaatcctgt gcgctagcga ctntttcgcc cgcactaaa caaaaataga aaaggaaaaa 360
 gccaacata aatcataagc caaacacac aaaagctcaa aaaacccatc agaagagcgc 420
 attctcaaga gaagtcctat tgatccatga t 451

<210> 5130
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 5130

agcttcattc ttgtatacag attagaagct ttttatcaat ggtctctgca aataccttat 60
 gtgcagaatg aaattctatc aatacacctc caatctttac tggagagggc taccactact 120
 ggataacccg aatgcatatt tttattgatg caatagactt aagtcttcgc gaagccgtag 180
 aaaaatggcc atatataccc accacactaa taacaactac atcagatggc agctcatctc 240
 gtgaaagcat aacaatagaa caacctatac atacatgccc cgcacatgat ataagatcat 300
 gtcactccat ctaaatecca cataataatc acatctgccc tggaatggt 349

<210> 5131
 <211> 604
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5131

cggtagatcc atcgtagatg tgtcgggtgtg attaatgaat cgaatanaaa aangatcggn 60
 nnncaatggc aaagaganat ggaccctgta gnaccangcg acctctnaga cgacctgccg 120
 catgcaagct tggatcatta ttctgacaac taatcttatt ttattgcgta gaatactacc 180
 atacgatatg aatgcatcac agaacttggt caaaatatgc actatggatg tgactttgct 240

taaataacaa tttgaaagga tatgatattt atttcttaaa caataacgct gaatatccag 300
 acgatcttct ttttaaaact aaaaaaatag caaaaatccc tccttgacat ttcgatgagg 360
 cataatntctc catcaaatcc ataataacaa atcatcaatt caannttgct catgggcatc 420
 atgagtatat ntttacaacc tgtatatattt ctgcttgacg atgtgcataa caatattaag 480
 actatgactt cgagaatcta attccttaaa gacaaccatg tgcgatatct ctctaagaat 540
 gaccatcacg gattacggtg aggaatgatt ctatatccac accacccacc taattttcgt 600
 aatt 604

<210> 5132
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5132

tcttttacga ttaataagac gggagaagaa agacgcctag ctgacagaaa tcacgttaca 60
 cgctcccaat gctaacaaca ttatagacat cggatatcgt actcggctcg ccatcatcgc 120
 catggtcaaa aacgccagag gcaaatggcc agaatactcc gactacactg atctgaacac 180
 ggcggggcct aaacatgaat acactctgct caacatccaa naactgtgga acgcatgcct 240
 tccaagatca ctttggtgac gcccaagaat cacgcgcaaa caagctccaa catcaagatc 300
 acattcaaca ttcaggaaag ttccagactc agagtacgac tcaaagacga ctaaccacat 360
 cacctcggag agcttcacaa catgaacaca aagagtattc gaaacaaaac cttaccacga 420
 gggtacctct ggg 433

<210> 5133
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5133

acaactcaca acttcagtcc ttgtatgacg tgcatcgtat anatnccacc canaaggccg 60
 agctttggct cgtgacgcaa cttaattacc gcggctgcag ccttacacgg atgaaacatg 120
 acctattatg tccccacacc gactttgctc tcagacgctg ctgtacgtcc acaaccacta 180

catcgatcat aacaggaccc ctcccttgaa tgttagaata caccgctcat gcgtatataa 240
 caacagacgg gatagataat gtatcgacta cgcacatgtc gaacaatctc gccgagatgg 300
 ggtccatatac aacgtcgagt taacgaaaac cagcccgagg cgagggtacta ttcaacgcca 360
 ggtacgtcca acacacctng ttggtgggta tccttataac gaacgacgcg gcgccaccat 420
 caacgttggg tgagaactcg tcacccctga ggtagcacac cgctgtgtg cttgaagtta 480
 accacagcac catgctccca tgtcgcagta aaaaactaaa accgggtcta atgaccgag 540
 atgtacaatc cccctcccc 559

<210> 5134
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5134

ggctgcagct ttactngttt tctattaagt tcatttatca cattcacaag tgttttagata 60
 tattttgttt ttatagaaaa ttgatttaag cttatttgga taatctcgcg ctaatacctt 120
 actttactaa acttagagcc aaattaagac tgtggtagac gacctttaat ttgatcaatt 180
 tcaagcgctt tgccttggct gtttttgaat aggatccata ttgacaaaaa ggtctaaagn 240
 tgtcactaac aacatctatt cactcagtc tcttagtatg gtctatatat tttaggtgac 300
 taactatgat gcaagt 316

<210> 5135
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5135

tgtcttctag ccctctcag ctgtcacctt atacacgctt aatangactt atctcacttt 60
 anancaacnc cntacgccca gatgggatgt ggacccgatt gagcaccgg tgatnctcta 120
 nagacacact gcagggctgc atgcctntat atgagctgaa ccatttatct atttacacac 180
 tctgaagcgc tatccacaag actaagatta tcccttctat cttactgaga gtgattctcc 240
 taacttctg agtgaatcaa gaacaccctg cctgatcaca tgacttccct acccttgtgt 300

gggccctcgc tggaaagaat gatcctttgc ttcctatcat ctccaccctt gttctttcga 360
 accatcattc cagataatcc acctccgccc agaattatth tgcgaccata ctcccacttt 420
 cacgctcaac taacggattc ctgaccgtaa tataagtcac cacatgactt tcgctcggtc 480
 ggatcacgta tctggagccc tgaacatcgg tattgctgtc atattctgcc agccaccctt 540
 acctcccctt accagcccgt catccatgth nccacaacca cccattagac cacc 594

<210> 5136
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5136

agcttgatat taataaccta tttggctcag ttcgagttct gactatagct gcaaactatc 60
 tcatgttggg gttcagtgtc ccacaccctg tgtataacat ctcatattht gcattggatt 120
 cgattaatga tacacaatth gtttattcga gaaaaaggct ccattccttca atttcattth 180
 gcgatatttg acagcacccg aatttcgttc tgaaacggta actatcagct ccggtaccgt 240
 gttgttgtag atgatatttc cgttactgaa cgattthttat aacc 284

<210> 5137
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5137

agctnttcct aatgttccca cttcatagct attatctgga atgcagagaa ggttgggccac 60
 atcgacatta ttgaattcat gttgcctagt cattctctag taggtgtccc taccatcttc 120
 tgggagagta gtgggctctc ctaaatactt gttgatggta tctctgtcat atttcacttg 180
 aactcttctc acctaaagaa ccttagtgat ctcatgttgc tttgttggcc aggaatttgc 240
 ataaaaatcct ctaactatat cttcattgaa ttttgthtca agctctgcca gaattthtcca 300
 tctthtctth gtgatgctag cctgaaactc ttcattatgc catgtcttaa ggtctactth 360
 ttctcacgga ttangcttct ggactctatt tctacatctc ttttgthggt ggattngtac 420
 atgaagcatc tccaatcc 438

<210> 5138
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 5138

gttaaaccta tctcagaatg aaatctgtta catttgtgca ataccatatt gttattactt 60
 gagccattct agtttatact cattcttgaa tcataatcaa atatgacgat gttagtgaac 120
 atcaatcaac ttaattatat tccttgatct taagtttgag cattgtgtga gtaagtca 178

<210> 5139
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5139

caagctctgc cacatgtccc tatttgattg gagcaaaagg gccactatc tctttntgac 60
 tgtgacccat actcagtcac caaagtgaga aaaatctgac ctttgaaacg ctaaaatcct 120
 gcctcgggttt gcgtgtcggtt tctctgattc cagttttctc gcatttctct gcgtccgccc 180
 gggccagttt tcgaaagcaa gcaatatata tatcacaacg ctcagaatga aaccccgagc 240
 gtggattaga ggggtggtttc gttaaaattt aagtcgcacg cacaacgatg attttaacta 300
 attaattagg aattaacca taacctcca gttatggatt tcttctccta attagcctaa 360
 cacgcatatc ttgccccgcg tctctactt ctaccagaac atatangata tacactgata 420

<210> 5140
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5140

tgtagagagg cattnagagga gctgaggagg aggcttacca ctttcccat catgcaacca 60
 ttagattgng agcttccatt tgaatttatg tgtgatgcct ccaattatgc acttggggat 120
 gttntgtcgt agagagttga tagactatca catgtcattg cttacgcctc accactctgg 180
 atgcaacca agtcaactac accaccaccg aanaagagct ttagctatt atttttgcac 240
 tagataaatt cagatcttat ttgtttgctc ctatattact attgtactg accatgcagc 300

cttgagatac ttgttgaaga aacctaattgc taaacccaaa ttgatc 346

<210> 5141
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5141

aactggatgc attggtttac ttggaaccca gctggccttg aatcagaaat ctgtacctgt 60
 cgcaaggggt ttgtggttggg gctcctctgc tgaccaccat acagaccttt gcccttccat 120
 gcagcaacct ggagcaattg agcagcctga agcttatgct gcaaataattt acaatagacc 180
 tcctcaacct cagcagcaaa atcaaccaca gcagagcaat tatgacctct ccagcaacag 240
 atacaacctt ggatggagga atcaccttaa cctcagatgg tccagccctc agcaacaaca 300
 acagcagcct gcttcttctt tcaaaatggg gctgggccag cagaccatac atntctccac 360
 caatcaacaa cagcaacaac cccagaaaaca ac 392

<210> 5142
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5142

agcttcanac agcttggttat aataaattac aatgagggttg taattgatta aaacagagag 60
 tgtttgcctc tgaagaaant tttctaactn tgaaatTTTT cttcacacat actatgatga 120
 tgcataatgc aaaacaaata tcaaatgcac taagatgcaa caaccaagat aaaaaccaat 180
 acaaattgtca ctcaagggag ttgggcatgt aaaagccaaa acttcttcaa aacctcttca 240
 agcttttctt tgagcttcaa gctttaccct taggttggtc actatattgc ttatgttgcc 300
 cccctatctc taacnaactt ggcacanaga cttggaaaac tcatattctt tgtgagcatg 360
 tcaacaaggg aaacaaatca naacgtc 387

<210> 5143
 <211> 523
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5143

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gatgtgaccc tatctgcccg agatcttaag tcaactgcggc tgcagcttan agtccttagtg   60
natgaattgt gtgtgcttga attctggtga aaatgccaag tatagcaaaa atgaatgggtg  120
caatcccaat tgtgtgatta aagagacaaa cacttgattg cactcgtgag tgagtgaaac  180
acttgaataa tgaggagtgt ggtcttcttg catcaatgat gaatcgccat gctttgtgct  240
ctcctttgat tttgagctag tgtatccttg ctatggtctc ctaaagagga catccctgtg  300
aataattgaa gccttgttcc attcattatt ttttatagaa natacatgtg ttggatatcg  360
taggatggaa tcgatctcaa ctcatgtcaa tggtttaatc ttagcactaa tagctctcat  420
ttaacgatgt gtgtactttt gctcgaggac anaacaacgt ctaatattga cggagttgat  480
atttgcaca atacttaact gagacatgtg attatgaaat tag                               523

```

<210> 5144
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 5144

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agcttgcttg agaagcttct atggaggctg gatctttgag cttcaatgag gaccttcaat   60
ggtgattttc aaccatggag atgcagcgga agataaagga gaagtgggtga gaggaggcgc  120
tatccactag ggaataagcc atgggaggag gaacttcacc accaagagag tgccttggat  180
aagaagctta tagaggaagc ttcagtggag gaaaaaatg agagagagag agaagggggg  240
gcacgatatt gaaggagata aagagggaga gaagttgaac tttgaagtat gtctcacgag  300
actctcattc atcaaagtta tgacaagtgt tacacatggt tctatttata gcctaggtca  360
ctatataaat gacagcttcc ttgagaagct ggagcttaac tatacacacc ccctctaata  420
gctaagc                                           427

```

<210> 5145
 <211> 301
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5145

gcttcaccgg atgatgccga tcgaacattt tctaategac atcatccaat tggtattcag 60
ggattgaata gaataaacia tggccagtgt cggtccttat atggccccga ctgatatctt 120
tcagccgaca ttgggcaatt tcttttacia atgggtggccg ataattgttct tnttttacga 180
tagaggaagt tttttgtttt ggtgttgctt aaaaaattta caacttaggt cggctagggt 240
tttccgtgcg agctcancgg aggggttcgtt ccgacggaca ctgngcatgt gttcttctca 300
t 301

<210> 5146
<211> 361
<212> DNA
<213> Glycine max

<400> 5146

agctggttag acttaacatt gatttgctaa tattgaatga tcgagtgata aattattaaa 60
tttatatttg ttgaacttat gtgcatgata tcaaaggaaa attatttgaa caagaaacct 120
acaacaattc ataaaaata ccatggttta atttacactt aagttctttg gaaaattggt 180
tccatgagga tctcccttaa tcttgtagaa aataaagcta aatactttct aatgaacgaa 240
gcatctgaaa cgtcaagggtg gcgtaagtgt tccacacctt attgaaagag gtaatatattt 300
ctcattagag atccaggcac aagcttaatt acttttgact catactattt aataactttc 360
t 361

<210> 5147
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5147

aagctcctaa tatctccac actntnntgg gtgggccatt cttggatggc cttgattntc 60
tcagggtcca cttggacccc atttctacca actacaaaac ctaagaaaac tatattatct 120
acacaaaagg tacacttctc tatatttgca tagagggtgg ttttcctaag gactgaaaga 180
acttgtctga gatgtcctaa gtgatcatct aggtcctac tataactaa aatatcatca 240
aaataaacia ctacaattct acctatgaaa tcccttaaga catgatgcat aagcctcata 300

aagggtgcttg gtgcattagt gagcccaaaa ggcatcacta gccattcata caaaccanac 360
 ttggtcttng aaagcagttt acactcatcn acccttttat cctga 405

<210> 5148
 <211> 446
 <212> DNA
 <213> Glycine max
 <400> 5148

tgcaagcttt acatttaaag cccagaattt tacagctact tcatcgtgct cttgtaaatg 60
 gctgatttcc atgcagtgat tgaaaatcgg atgaaagatt ttttttctaa tcttatgttt 120
 gtaatgtgtg agacaaatat tacatagtag tgtaacaag aaattaccac tagggcattg 180
 atgttctaca ctgtaacagc atcatccatc attacattgg aatattggat agatcatacc 240
 ttgataattt aaatctgcta gagtgaaggc cgaatagttc cttgtgattt gcctggtaac 300
 ttggtatata tagttgcatg cattgtctaa cacatgactt gaattcaaca gatgttaact 360
 gtcttagcgg gaacttttct tggactccat attgcttcca tttcatatgt acctacaagg 420
 aggtcttcat aatctcataa ttttca 446

<210> 5149
 <211> 344
 <212> DNA
 <213> Glycine max
 <400> 5149

tcattggagg taaagatata aacttttagat tagacgcatt ataaacgaaa aacaaagaag 60
 gaaaggggtc atgatattaa taaacctgag gaaaaagcac ctgggttagta cggataaaaa 120
 gagtagttgt agaaatgaga tataaaaagt gagggaagat catggtagag taattaacta 180
 aaccggccat cacaaattta gatgagagtg gtttgaagaa tgcagactgt aacaaattat 240
 tgggacttaa tttgaaagaa ggaagaagga gacaatcgtc gtctctttgt ccactactcc 300
 acctcagatt tttggacatg tctattttgà aactacttag taac 344

<210> 5150
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5150

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caggtatctt taccctacct cagccgcgc tctaatacgc ataccattat ttctggcgct 60
gaactgctca catttggaac ccatcctttc tattatactc ctggcttcac cagattgac 120
tgtgtgccaa ggctccacca ctagtagaat ctatcatact accctacata ttactgaatc 180
cttcctacat atatgggata aactgctgct ataacatctg atggcgactg gcaacaggat 240
cttgngttta taatatatgc attattcata cccgctatct ccactagttg acattacata 300
tatatctttt tgatggttgg gtctgaaacc cgaaaatct tctagaatat ctatcacgtg 360
tccctatagt atggacctga acaggtgtac accgtctttg cgtcttaaag atgagagagc 420
ctccaacatc c 431
```

<210> 5151
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5151

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agcttgtgta ttgatcgata ttgattgggt gatgtgatat tgtgtttgat ccatgagtat 60
gtgaatgatg tgcaaatgtg agacatgtag tgttgagata tgatgtcacg tgataagtgg 120
tggaatgaca tgagttatgt taatgtaagt tgtatttcat ttatatgata ggtatatcta 180
tgttgtctca tttctctcta ttagttagga atgtgataac tcactccatg tgtgttattt 240
gtgtttggat catgtgatga tatcgaactt tgtgttcatg ggagcagatg attcagtgga 300
tggctatgga gaacctcatg ctagaggacg ctagaacaca atgctctgat aggatgagac 360
atcggaacat anggttctat ctanattaca tgaagcccta gacatattag nttatcatt 419
```

<210> 5152
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5152

```
gcttgaggct tanacgtagt gtttgtgatg atatagagag agggtggtag ggtaaagttt 60
tcaaaagatg aaagggtaaa tgaagttcat gtggggggcg taataaaata ggggacaagt 120
```

tggtcgagtt gaattgacca aaatgggggtt cttgcatttc atgtgaaact acgagtttgt 180
 agtacgttct ctcgtgaagc cctcttgcta gtggaacaat ggaacctaat tcatatttga 240
 ttaccgattt tgccccctctc tgtcaatata aaactttggc acatgagatt gatagagaag 300
 ggcaacttga actctctctt ttggtcgtag agcttatggg atgaacatcg ttctttaaag 360
 caaggctatg acgtgggttc ataagcgta accttgattt acaatagcat gttaataaca 420
 ataacttatc cacagaggat acacatat 448

<210> 5153
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5153

agctatgatt caattcattc aataacaatc cattaatcgg aattaataaa tttcaccaac 60
 attctgttat aaactcaagt caatcaggga ggcagcccca agcgcagtcc atcagtattc 120
 gcacaataga caaattaagc aaaacagtca atccccttaa cccagacttc ctttccttat 180
 gtgcaagctt actttcccca ttttaccctt tttttcatca ttgaaagtcc actaaatctt 240
 gccaaacatt aactcttata tggaatgagg atgagttaat cttagaactt acaatagatg 300
 ccccanatca tccaaacct gaatcaattc ttgatgtctc ggtatacaaa tatgatttgt 360
 cattcgcagt acagcattcc aatgccccct cttttctgat gcctgaatcc acaaccttgc 420
 tcaccaccat tccaattttc attanaacac tctacaaca 459

<210> 5154
 <211> 348
 <212> DNA
 <213> Glycine max

 <400> 5154

ctacaagttg gatgcctcgc tatgtggatg catctcttag ccaatctgcc tcgctaagcg 60
 agtcattaac aacttttacc ttctcttctt tggcgtgaaa ttgagttgga ttcaacatta 120
 ggtcacaaaa attgagtttc tactctataa aatcacacaa tagagaaaat atgtacaatc 180
 tctacaaaaa gaaccataaa taggaggcat attgctattt tcttgcagat atccaatacc 240

aaactaactc atggatgatg caatcctacc ccccaagggt attggataga agactccaag 300
aggcttatgc tagagctact aaagaaggcc ctatggttct catgaaca 348

<210> 5155
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5155

atattacata gaaggaanaa aatagagatg gatattcaat atatagatag aagagaagaa 60
aacacaatca ttttctactt tctagttttt ctaccaagct agtaaaatgg aattgtttca 120
atccacatct ttcatagaaa caaactaaat ttgtcactca gtcaatagta aagaggatac 180
aaagtataat ttaattgatg acattgtcat actgttagtc cttcaaagt attattattg 240
gtgatcacgc aaacttgttc atcaagtggg tccccaacac ctogactatc atcatggaga 300
atacgccttg agtagtaaac attgtgttaa tactctgggt gcaataaaat aatattgaat 360
agcattaata aaagaaagct cgaataccta tgaagcat 398

<210> 5156
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5156

ttatagaata aattttgagc caaaacaaca agcacctttc cctttcacct tgtttttctg 60
gatactcgat ttcctgccaa catgtgcatg tattcgtatt ttttcctttt atccaaatca 120
cttgtttctt tntttataac ttttttccag atgtctagaa aattcagtat aaatttcagc 180
tcaaaattcg aggtaaccaa ttctcagtaa ttcttacaag tttgtatgtc caagctgcca 240
gcaccagcga tatgtttctt taaacatggg atattgattg ccttgggctt actctcaacc 300
ttcctatgta tgttgaactc actagtattg ttgaccacaa gtnttaggtg ttcaatattc 360
acttaggatc aacatttttag ccagcaattc aatcacc 397

<210> 5157
<211> 293
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5157

aacttgtttg gatgatgagt tagcaaggca ttgtggaatg gttcctgtca acttggtgag 60
agataagttg agaatctgaa tcgctcttgc attgcaaatt gaggaagaga atccatcagt 120
gattgagtta aaactaagat catgggttacc aagttgcttg ttccacgaca attgggtccaa 180
tgattgggtc aatcgggttat gagagaggtc caattcagat aacgatattt catgcaacca 240
atttggcact ttacctttaa gtttggtgtt ggacanagag agcgattcca aac 293

<210> 5158

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5158

agctttgctt ctgttcaata tataatgact gtagctaact atgcgtggnt aatccgatcc 60
gatcatcgat ggtcggcaag tatgatggtc ttaatgatga tcctacacgt attttcgtgt 120
gtatctcaca ggcgggtttta aaaaacctcg ccaattaact tgggttacgg gtgtagttat 180
ggctgtattg actgcatctt ntgggtgaac cggttattcc ttaccttggtg atcaaattgg 240
atatagnnga gtcaaaattg taacaggcgt acccgacgct attcctgtaa tangatcagc 300
tttggttaagc tattacgcgg aagtaccagt gcaggacaat ctaccttaac tcgttggtat 360
aggttgcata cttgttgcac acctcttcta ctgctgtatt at 402

<210> 5159

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5159

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tcttcttttg cttattccct agtggatggg gccttccttc tcctcttctc ctttgcttc 120
cactgcatct ccatgatgta aaatcaccat tggaggacct cattgaagct caaagatcca 180
gcctccatag aagctccaca agcaagcttt catcaaaagg agactgtaat agtctttata 240

acaatgaaag tagaagacca tgaatgtctc tgcattgcaa cggactcgct tgtctctgga 300
 aggcanaagaa gactgtaata gtcttgataa caatgaaagt ggatgaccac tgatgtctcc 360
 tcatgccaac ggactcgctt gtctctagaa gggcagggaa actgcaatag tcttgaaaac 420
 aacaacaacg gaagaccatg attatctccg cat 453

<210> 5160
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5160

agcttattnt cttatatgtg atgaaatddd ggtcaatgaa tttctctttg ttctttgagc 60
 acatacttga ttatcgnnga attaatctca tcgcttctat gtcattgtact acgaaatcaa 120
 tgcgaaatat tgtgagaaga gaatcaacct tgacgtatga atgtactata aaaatatgtc 180
 ttcttgaatg ggataaggct acacctttaa tgaaaaaatg agattttcat gcttcgaaaa 240
 actttgtgag tgacacagaa tcattagtta gatggatcac agttggatac aagttgcatg 300
 agccctacgt atgaggaatg cgtggaacac tttctgaaat atgccaccga tagaagtcga 360
 tcggatgagg atggaacata tttnttgctc tgtatacact cgttgaatgg gagacaatca 420
 ctacttgatg acatacgaga acatctact 449

<210> 5161
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5161

agcttagcag aggatanggt tataccctta tcttatgacc ggcggtaggg cttgttcccg 60
 aacacgaccc aatctcctac ttgataatgc atctctgcga tgtttgtgat ctggttggtt 120
 cttcatgagg acctgggctc tgagcagctt cttgtgaata gcttgaaagg atgcatctct 180
 gtcaatcaag aggtctctga cagcttcgat atttgatgtg ctggagatat actcacggaa 240
 attgaatggt tctcggcaaa tgtcacctcg tagggagttg taccggttcc cgcgttccac 300
 gaggtggtgt gtgaccattc tatccatcgg atgaacttgc cccacctc 348

<210> 5162
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5162

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 tacttctata aacaaaatca tccgctttat caataccatc gttcattgat aacctttcat 120
 tcacaacaat tggagaggcc acacgcttgc attgctccat gcaaaacttc aatatcacca 180
 aagcatattt cttttgtgaa atgaagatcc cgtcattaca ttgagaaatc tccattctaa 240
 gaaaatactt aatttcaccc aagtcaacca tttcanattc gttgtccatg tcccttattt 300
 cacctaagtc agtcattttc ccacttcttc acgtaccag 339

<210> 5163
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5163

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 gcanatcaac tctcccactt ccacaaatca tacatgaacc caccatccgc agttgcccac 120
 cttcaactga gctcacgtac tccctacgtag cccttatcct cgttcctctc agcaccgggt 180
 ccccatthaac cactccaagc ttccacaata tccaagcaat tcaattccaa ttaccatgaa 240
 ctaccctaaa ccaagagaac agggcagagg cagagaactc tgcccaaaca cattacacat 300
 tacagtttcc ttactcatat atcccagaac attttctcgt ttcattcgta accatgaatc 360
 aactgaaatt tactggaggt ctagtcataa gctacatttg accgttggat ctctagaaat 420
 gctagaccaaa tatgtactac cttccatac 449

<210> 5164
 <211> 1352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> unsure at all n locations
 <400> 5165

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acgttcgcgc acccggggta ccctgaaaac gtccgcagcc ccccccaccc cactcccaga  120
atgaaaaaat aggggcgggc aagggcgaac aaaaaaggag ggccccccgc cgccagtttt  180
tccttttttt ttaaccaaac accccaaca cacaacgcca tgcgaaacga aaaaaaacac  240
acagcccgcg ggcccgacc gcagaaaaga taacggcaac cacattcccg ggagggaaat  300
aatccgcgac aagaagataa accacaggcc tccaaccaa acatctcatt ccgcgacctc  360
caaccacata actccggaac catcgaccgc gggatggaac cccaacacc cacagccgcc  420
cccagacccc ccggaagaca cccacggag ccgccaccac aaatgcaaaa gaaacccac  480
cagaccccg cccagctcac cttcacgaaa cccccaacg aaacaaccgg caaccaccc  540
agcaataaga gccaaccccg cgccgccacc ggacaggggt aacaacacac gaaaccgccc  600
ccccgaccc actcacaaca caaccagca ctcaccggcg acaacacaaa agagaccac  660
ctcagagagc ggcgacacc accgggtaac aaaaaacaaa acccccgcga cctacaaacg  720
ggggcgacaa ccgcacccga ccgctccgcc accagccaca accacacgac gcacaacgcg  780
cccgacggga cgcccccaac acccaaccgc caacgctgcc gcggggaaca aagcctaaga  840
catagacccc ctttcacccg gcggcgcccc accagtgcgc gcaccacaaa gccgcccacc  900
ctcacgccac acagggcgag ccaacgcgac cgccccacc ctaggacaac catcgcaaca  960
gaaacaaaaa cctaccaaac aacagccacc ccgcccggac agagtaccaa ccc      1013

```

<210> 5166
 <211> 240
 <212> DNA
 <213> Glycine max

```

<400> 5166

tgcagcgaca tcggaactcg atgtacgaaa agtctccatg tgggtggttg atcaagtggc   60
ctcagaataa ttaagaaagg gggttgaatt aattattaat gtaccttgac taattaa    120
atatccttct taatggtact aaaattaatt aagcttttac tacttaattt aaaaagttaa  180
gaatataaaa agaaacttta cccaaagtta aaaccaatat ttaagtgcct atcggaatt   240

```


<210> 5167
 <211> 903
 <212> DNA
 <213> Glycine max

<400> 5167

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acgcacgcat taacattgcg aaacaagcaa ctccacacacc cggagacgca tgaaatcgac   60
tcctacccgg ggaccccaga gtcagcagaa gtccgcaagc ctgttaaacy aataaaaatg   120
aggccacgca tatgctgccc ccaacaacta aaccagtttg gaatgagagg gtttctatat   180
tttaatgggg ttcacaaacc caataacaat gcggacgatg gggaaaaaca aatgggaaaa   240
aaaagagatg ttaacagcaa tttgttaac cccccaacta taaacggatt tccgataacc   300
actcttaaaa acaaaaccca aactaatggc cgaaaagatg agaaaacaca atctttttta   360
actaacgagg gcgttaccac acgaaatcgg gaaccccaac aaatgaaaag aaaaggacaa   420
gaggtaaacy ggactcccga ggacccaaaa aaaaatactt taaaaaaacc cggaatccct   480
tttaaaaaac caattcccaa tgcacagata cccccacaat tcttctctgc cacagaacct   540
caataaacia atcccccttc aaacattaat caaaaacacg gggccggaga aacaaaaaaa   600
caaccatcgg gccctccacg atacaagcac gacacaaaca aaccaccag aatactccag   660
ggacaaacia aactctaact tagaacacca aaaagcggaa cggagtcccc taaaaccaga   720
gaaatcacac cccccacaa agaacctccc ccaaagacga gggagccaat gttgcacccg   780
acaagccccg acaagcaggc accccaacia ggggcaaaaa gagggcaaac ttctggcaaa   840
acgaaacggg gcaccaataa cgccaactcg aaaaccgcac aaacaccccc ccaccgaaat   900
tcc                                                                 903
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<210> 5168
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5168

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tgataatttt tcccagctc atggtctcag gcaaagggga ttccctttcc ccttacctgt   60
ttgttcttag catggagagg ttggctttaa agatcaatga gctaaggag aatgggtgtct   120
agactcctat ttcttatcc agcacatatg ttctttgaaa ataatgttct ttgttctgc   180
aaaagctaaa gtggtggatt ctacttctac tcttgctcaa tatggtattg cttttggtct   240
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gagagttaat ctcaaggagt ccaaattgat taatttgctc taggggt 287

<210> 5169
<211> 395
<212> DNA
<213> Glycine max

<400> 5169

gctttgaggg tgcgtaaccc accatctttt catagtagag tatcgataat gtgtctacca 60
tcacgatcat cgttttttctt ttccatcatt ggggggtacca cctggggccgc cagatccctc 120
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240
gtccttccaa gaatggactc gggaagattc caagttagtg taccaggtaa cagctacccc 300
agtaagactt tcttgggaagg aatgtattag caattcctca tcttttgctt attcccccat 360
cttctgacaa tacatcttta aatggttctt gggac 395

<210> 5170
<211> 287
<212> DNA
<213> Glycine max

<400> 5170

tctccccaa ttttctataa atatggggag aagtgaagtg gaaaaggggt cagcccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattggt ttcgtgaaga aaatccaagc 120
cgaggcggtt ccgtaacgtt tccgggagtg atttcgcgaa ggttttctgac cgttcttcga 180
cgttcttcat tcgttcttca tcgttcttcg gtcttcaacg ggtaagtacc tcgaaccaag 240
ctttccgatt cattctatgt acccgtgggt gttcacattg tgtttcgt 287

<210> 5171
<211> 489
<212> DNA
<213> Glycine max

<400> 5171

agctttataa tgggctttct cttcattgct actagtatca ataatagtag taggtttctc 60
ttccaatata gtaagatcaa gatccaaaac accgagatga aattggattt gtcattcca 120

ataagagaag ttaaaccat taaaaattta cacagatgat acatgagaat tcagtgaatt 180
 gggaacaggt actgtataat aaaattcaaa taagcatttt gagatataaa acacatgtca 240
 tacatataat tcatttagat aataattaat gtacattggt gttctccttt gggtgataca 300
 ccagcataac atacaaatat gacgatgcta ataaaactct taacattatt tgacaattaa 360
 atatgtacca attaatggta cctattacct ttgagtatat aaataaaact aataatacat 420
 agaaatcacc taaaattata ttcattaatt ttaagaacaa ctaatccacc tttgggtgat 480
 ccataaata 489

<210> 5172
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 5172
 taggaaaaat tgcaagagat gatcaaaagt tgctctcacc atggcttttc tcaacaaagg 60
 ttgggtgata ttttctatgg tggaatgtcc tcacataata ggacaagttt agatgttgct 120
 tgttatggca atctcatggt aaagccctta catatatcat caaatcatt gaagacatgt 180
 gttctaacc ctacaataac ttaaggata ggacgattac gaagagaggt gtcaactagg 240
 tgcagaaaga tgaatccata actaaattat gaaagcagat gcaagctcta 290

<210> 5173
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 5173
 agcttccact ccagttccca ttcgagtacc taacgggtgt gattttcaaa cgtaaaaac 60
 cagaatatat aataccctta agctaaccga caaacaattt ttggatgaaa tttactaacg 120
 acagcctttc acgtatgcag gtaatcaatt tcggttttaa tgtatgcaac tgaaagatga 180
 tgctgatggt aacacaatgt taatgtgtaa tcatgaattt ttgtttgttg atccgattga 240
 gtttttatgt agcattgcta gaacccaga tggcatttta aatttacttg aatctattat 300
 gaaccctact catgatgcc tgctttatta caatgggagg tggaacatgt cagccaaaa 360
 tgagtttggg gggtactcat tcgtaggaaa aaatcccaaa aactttgaca tccccactgg 420

atgtaccat

429

<210> 5174
<211> 280
<212> DNA
<213> Glycine max

<400> 5174

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ttctttctct tttttcttct ctttcacctt gctgcacaat tatgtgtgta tgacatttct 120
attctgttgc atctcctgct gctgttcttg tttgttcttc atcacttcca caacaaactg 180
gtatcaagag ctcaagttgc gatcaagga attcaagatt cttgtctgaa tacaagatc 240
aagctatggg agtcttggtt ctggttcttc cactgcttca 280

<210> 5175
<211> 587
<212> DNA
<213> Glycine max

<400> 5175

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60
cttaggcact tctctctctt tcgaatttgc ttggaaaaat cgtttccgtg aagaaaatcc 120
aagccgaggc gcttccgaaa catttccgta acatttccgt gaggaatttc gcgaaggttt 180
cgacagttct tcgacgttct tcattcgttc ttcattcattc ttcgatcttc aacggggttag 240
tacctcgaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300
gtgtattttt attctcgttt catttacttt ttataccctt ttttgacgtg cttaagccat 360
tttatttaag tcatttctcg cttaacctta aaataaaata aatttccacc gatcgtttta 420
attgtattat ccggtaaact cgttttaaac aaaatctaac cgggtcaatcg tgccgtaacc 480
acgttggaag ttcaaaaaag aaggtaaata ataataataat aatcaaaaaa atatttttta 540
tttaaataaa gcgaaaaatc aatccggcct tttctctttg ggaattc 587

<210> 5176
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5176

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tatttaagct aagtctagtc caacaagagg gattcttata gactaagctt agtttaagtt 120
agtctaaacc taagaggggtt gtctaaatta agcctagtcc aacaagaagg atatgaggat 180
gaagcttgga ttgattcatt ctaactaggg atcgaggttt aataatttag gctagaacct 240
agaaaacaaa agcatgattg attagagaaa catctttata tacatcagct ggtttgtag 300
aaagacccaa catctttacg tactgttgtc aatcttactt acttgcatth ttactgtttt 360
tagcgtagac ttagtttaat tctattctaa atcatcaatt atcaatgttt ctttcaacaa 420
tgccttattt atgaatntaa ccctgtctaa gactaattcc ctgagttcca tactc 475

<210> 5177
<211> 284
<212> DNA
<213> Glycine max

<400> 5177

tcttatccaa ggctcatctt ggtgggaag ttccttcttc catggcttat tccctagtgg 60
atggcgctc ctctcacctc ttctccttg tcttccactg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagcctc catagaagct tcacaagcaa 180
gcttccatca agtggaatc agagcacaag agctttaagt aggtgctcct taaacctcca 240
ttaatctttt actttacctt ctctccatt gttgtttctt catt 284

<210> 5178
<211> 408
<212> DNA
<213> Glycine max

<400> 5178

agcttgctct aaatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60
tttaattgtg tccactgggt aaaactaact ttccaaatgt ttgccttcgc aggaaatggc 120
cccaggaag cttgcctcaa agaagtccag gaaagacaag gcagccgaag gaactaatc 180
cgctccggag tatgacagtc accgctttaa gagcgctgta caccagcagc gcttcgaggc 240

catcaaggga tggtcgtttc tccgggagcg acgcgttcag ctcagggacg acaagtatac 300
 tgatttccag gaggaatatag ggcgccgacg ggggacatca ctggttactt ccatggccaa 360
 gtttgatcca gaaaaaatcc ctgagtttta tgccaatgct tggccaac 408

<210> 5179
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5179

tttgcaaggt gaaatcattt atcctatctc cgacagccaa tgggtgagtc cctccaggt 60
 agtcccgaag aagaccggcc tcacagtgat cagaaatgag aaggaggagt tgattcctac 120
 tcgggtgcag aacagttgga gagtctgcat tgactatagg aggctgaacc aggttaccaa 180
 aaaggaccat tttcccctgc cattcattga ccagatgctt gaacgcctgg caggtaaatac 240
 ccactactat ttccttgatg gtttttttgg ttatatgcaa att 283

<210> 5180
 <211> 731
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5180

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 tatacatacc tgaattggag tagtatctta gtagtttttt ggggtgaacat tagaagtaaa 120
 tgtatggata ggtcatacac agaggactta agttctggtt ttttttttgt atatgttttg 180
 tgttgatgta attatctctc attgcacaac tagtacatgt atatgtatca tttttttcta 240
 aatacatatc aatttgctat aaaaaggttt gtttttaata agcaaaaatg aaagctatgc 300
 tctaacccaa atacacaatc cacatatattg ctactttaca aagtgaaaaa tgtattattt 360
 tggataaatt ttgtgttttg ataaaaacaa attcatgggt tagaaaaaaa actattagct 420
 catttatgat ccttaaaata tgtattaatt attcctttac tagagaaggg tattcagggc 480
 ttttgtgcaa atggaaacct cttatcatta ntttgttggt gaaatggcta tgccctcatt 540
 aatttttgtg gaaaaaaaag atatgggaag agttttttat tcaagatgag gtttaatggt 600
 ctatatgggt atgcctggac tttatgccta aaaaggtgaa aggaacaatt gctttttagt 660

ggattcaaaa gattgaaaaa tttaaaattt attgggcgaa tttccccttt tgggatttct 720
 aaaaatttcc c 731

<210> 5181
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 5181

ttgagccaaa atcctgattc accataaacc ttgacccagg gtgagaatgt caatccttac 60
 cctcgaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120
 tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
 gcaaaaaaag aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
 gaaaggaaaa ttccaatca aagaatggga gaaagtaaaa aaggaag 287

<210> 5182
 <211> 350
 <212> DNA
 <213> Glycine max
 <400> 5182

tcaatttcga ccatcacgat atattaccg actcatccgg acatccatgt ataaagttat 60
 tgtcaattca attttctcag agcttcggat cagaattttg agcgtctcca tatattacgg 120
 gactcattca gacattcgaa taaaaaggta ttgtcgtaag aatttgatac caacttccgt 180
 tttcaatttg gaaaatctct cgataaaatg caacactctg tcgggcatcc gagtaaaaag 240
 ttattgttgt atgaattttc taagaagttt cgttttcaat ttggaacgtc tttatatatt 300
 acgggactca accggacatc cgtgtataaa ggtattggca ttacaatttg 350

<210> 5183
 <211> 354
 <212> DNA
 <213> Glycine max
 <400> 5183

tttttaaaca gaccaaaaga ttattatggt gttgtgaatc tgcattccaa ttggcgtaaa 60
 tatttatata accaccttgc ctgagtacta aaattctaaa actatcctac tacaaggagac 120

tggatcctaa cttgaaaata tcaaatacca atctcttgag taggaaggga aaaaaggcat 180
 tttttattta tttgccaaat caatggtgat tggtaattha ttagatactg tttgggagaa 240
 aatttcagac ttataacatt ttcctctctc gggttttctt tcaaccacca tgtaaactctt 300
 ataattacta ctaaaaaggg catattataa gccccgcct taaaaaaaaa aaac 354

<210> 5184
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 5184

tacttaagct tggaacatat ttactgaatt ctagctcctt ttaaggacct agttagaata 60
 tctggcgact ggtcattgga gttaataaac tcatgttaat ctcttggac aataatttct 120
 caccaatgaa ataacaatca atctttatgt gtttaaattc tcttatgaaa aaccggattt 180
 gaggcaatgt gaacagtata aacttaattt gctcaaattc acaaaattcc aatttttggg 240
 gaaattgggtt aatccacata agttcacatg tagccatagc ca 282

<210> 5185
 <211> 1226
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5185

gtcgacggac ctcgancagc ccaactncag ccccnctc cagcccgcgg ncantttgaa 60
 nccgttggtc gaaccaaccg acccggaac cagaacaaca cggaaaaaaa cccccgcgcc 120
 ccaaacttcg ggaccatccg ctggaccggc tcaagcaagc ccacagaagg ggcgcgaccg 180
 ccagggggga atttttggat gcaactcaaa cccccccacc agccgaggaa gccaaaaatg 240
 gcgaggcgcg ccccaaaaa actgcacagg aaccacaaca caaccacaca cccgcgacga 300
 aaaaaagcga aacggcgcgcg ggcggaacc cggcgaccaa acacaacacc gagaaaccca 360
 ggggccaaga aagccccacg cacagaagag gagcgcgac gccaacgagt aggagaggca 420
 ccgtgacaga gaccgacag cagagagcag ggaaaccctc cgccaagaag ggcgacgacg 480
 gtccaaacgg gacgaagcaa caaagacaac aaggggaggg agcccgaaca aagcacacga 540

cgcaggggac caaggacaca accggggcccc ccacacacag gcacacaaaag gcaaacagcc 600
 cgcacactga ggcacgcgcc ttaacgggac acacaaagcc agccacgcaa ggagcacgcc 660
 ccagctaacc cgggcgacca gagacacacg acgagagacc cacacaccga caagagcgcc 720
 gaccacccaa gacaatacac gacacaaggc gtaccaccag ccgcaggggtg agagcgcgcc 780
 ctccaaggcc gcacaagccc gagaagctcg tacaaggagg aagacacggc gcaacgggccc 840
 cgccacaggc naaatacgcg ggcccgcga gacgcaatac tcaaccgacg caccgagccc 900
 gcggcaggac gacacgcagt gaggacgccg cacgcgcgcc actgccaccc gcgcaacgaa 960
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 cacagcagta atccccggcg gcggccgcac gcgnatacac ggctcgcgac ggacctagac 1080
 cacgcatgcg acaacacgag aagaccgcga acgaacacaa gcgcgcgncn cngccatacg 1140
 cgatactgtg atagacaggc tctcgcacgc tgacagtcta ncacgtcgac agctcgtacg 1200
 natcgcacac gcgatcaaca cgccgn 1226

<210> 5186
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 5186
 agcttggtca taattataaa aagatagatg cttgtccaaa aactgcatg ttgtatttgg 60
 gagatgatga aaaaagtgtg gatgcttgta agcattgtgg tacatctaaa tggaaacccc 120
 acaagaagaa gaaaatagct gcaaaggttt tacgctactt tccattgaaa ccaagattgc 180
 aaagattggt cacatgtcgt aagactacaa aagatatgag atggcatgtt ttggaagaca 240
 ataaagatgg gttgttaaag catccaagag atggagagac atggaagaca tttgatttaa 300
 tccatcctga gttttcttca aatcctcgaa atgttcgttt aagccttgct actgatgggt 360
 ttaatcctgc taggaccttg agttctacct atagcatctg gccagttt 408

<210> 5187
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5187

ttgtgcta atgttctatt gacactcttt gtttctgaac ttcttctttc acggcaaagt 60
 acttcaattc catatgctta gcacccgtag agtacttgtc gttcttagaa aagaatattg 120
 ttgcggagtt atcacaatac attttcagcg gcctagcaat actgtcgaca attccaagcc 180
 ctgaaataaa gtttcgcagc caattagcct gaattgtagc ctcaaaacat gctacaaatt 240
 catcttccat ggtggatgca gcaacaactg attgttttgc actcttc 287

<210> 5188
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 5188

agcttcagcc tgatcgctaa gcgacaactt atccttggct aagcgtgacc tattgtcgcc 60
 aagcgcaatt ccttactgcc acaattgagg tccatgaagc taagcgctgt catgacagct 120
 aagcgagatt cattacggca atatgagcgc taagcgagtc cctctcaact aagcgcatgc 180
 tcctttgtac ttaggatgca tcatttttagc taaactgggc aaagcctggc ttaacgagag 240
 ttgcagcttt tctaattctac agacctcgct aagcgaactt actctcgtgc taagccaagt 300
 ctctgttaaa aaaaaacctg attttgaatt tgaaacgtcg gctaagtgca cgggtccgct 360

<210> 5189
 <211> 256
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5189

ttgcttctac acagtgtact tgatgggtgcc catgtttcat atgttggatg ttgtgtatgt 60
 tcgtgggggg ggggggtgcat tgaccttgtc agatgttcct ggtgggggaa aatagagtgg 120
 ttaaagagtt ttaagcatct ctagagggga tggcttanga tctttaattc atccatgggt 180
 agtgtacttg atggtgceca cgtttcatac gttgtatggt tatggggggg ggggtgcattg 240
 accttgtaat atgtcc 256

<210> 5190
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 5190

agcttctatt gaaatgccac aatcatataa ggcaacttaac ttaagcaaca acacacataa 60

actttcttat tcttaaaact tttttttttt attttagcag tttttacttt cttgatacaa 120

aatttatgtg gttgttgcac gtcttaccat aatcatcatt acctaatacc ttcccccaaa 180

tttgaacaa atttgccttg aaccacaatg ctctcctaca acctaaagaa aggtagatgg 240

agattataat tcaacagggt taggggtcaa ctcaatcaat cagattcaag ctcaaaatgg 300

gtgcaatgga ttcatcattc atgaacaggg taagctattt ggctaaatgg ctaattcaat 360

caatcatggc cttcatcatt tccaaatcat g 391

<210> 5191

<211> 287

<212> DNA

<213> Glycine max

<400> 5191

tatcattggc tegtaccacc ctattaattt ggaaaattac ccacttggag tcacttatta 60

cctttatttt cttggcccct agctcctcga ctattcacac tcttgcaatg caagcttcat 120

actctgcatg gttgttggtt gttggaaagg aaaaatttaa ggcttgcttg actattaagc 180

catatgaaga ttccaataag acatagctcc acttcttttc tegtgggaag acccgcttac 240

aactatcatc catacttgat ctcttttttg gtactccaag atcagct 287

<210> 5192

<211> 594

<212> DNA

<213> Glycine max

<400> 5192

agcttaagcc ttttatacat gcttagtaag gatcaaagat gttaaaaaaa tggattgatc 60

tctaagtttc taaaaagcaa tgagttcaac aactataat tgattacaaa gttttgttat 120

caatcacaaa gtgttagaac aaacaacaaa tctctcttct acttgaaatt tttggcaagt 180

tttgacaaat taatcgatta cttgtttcaa taatcgatca tagaagtcag tttcaaaaga 240

agaaagactt tgtagcttaa gctaactgat taccttttat tgtaactgat taaattgtat 300

ctagaaataa tcaaagttag tttcaaaaga agaaagactt tgtagcttaa gaagttctct 360

acatgatgaa ataatcaatt accacacctg ataatcgatt attccagaaa atacagaagc 420
 atgagaagct ctttatttga aacaagataa tagattatca tttcctataa tcgaatacaa 480
 gatttatgaa aatgcataac aaaaaggatt ttgacgtatt aatcgattac cataatctat 540
 aattagttaa aattgggtta cccatcaaaa ttataaatac ctttttatct tatt 594

<210> 5193
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 5193

taacgcttgt atcatgtatt aaaattcagt ctgtttatct ttctgctttc tgggtttaaa 60
 aaagccaggg gtaggggaaa aaaatgattt tgaccccaaa attttgattt ataattacct 120
 gataatagct gacaagggaa aacatgtggc ccgtggctga tcaaaatcaa aattgccaaa 180
 ggtttgaaa caatcctccc atggtaagg gtgccttttg ctgtaacccc ccttaattac 240
 cccaattgg ttaaaaaaat ttccatttt ttttattac 279

<210> 5194
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5194

agctagtaat acattaattg ataaaataaa actttggcat ttgagattag gtcatgttag 60
 tgaacgggga ttacatgaaa ttgagaaata aaatctgtta ggtggcgata aactagataa 120
 acttgaattt tgtgatcatt gtgtgcttgg taaatcacat agaataagct ttggcactgg 180
 tattcatgtt ttatctaggc cttttgagta tgtgcatttt gatttatagg gaccatttag 240
 agtgaaaatt catggtggaa gtcatactt tctcaccatc atagatgatt tctcaagaag 300
 agtatgtctg tatgttttga aaaataaatc agaagctttt caaatattca gagagtggaa 360
 aactcttatt ggaaatcaac ttggtacaaa actaaaaatt ttaaggactg acaatggcct 420
 gtagtttgtt tcaaagcaat tcaatgagtt ttgcaggaaa gtaagtatca naaggcccaa 480
 aacaatccct tacacaccac aacaaaa 507

<210> 5195
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 5195

tagtcattat aattaaagtt tctcatttca tttcaagaat gtgttttgtg gaaaaatttt 60
 atttatttta taattattgt aattaattgt taaaatacta aaaaaaagtg ttttaattatt 120
 tatatttggt attatttggt taacaattat aattataatt tgaatactat tataatataa 180
 tttctttatt ataaatcatt ttatttgata attattcatt ctcattcctt cttattgggt 240
 tcatattggt caataatata taatatactc ttatataaaa aa 282

<210> 5196
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 5196

agcttaatgc aaactatttc tataagaaga tgggtttggc cccttcatca tttgattcac 60
 acttaaattc ttcgcttagg attgttacga tttttgttaa taaatctctg cttttatgaa 120
 caaaaatata taaagttggt ttacgagata aagacaaagt ttttaatggc tttgtataaa 180
 ttatagatgt cgcattggga ttttttagga aaagggaat tggagctgca aacctcaact 240
 aaccacgatg agtaaagtcg ccaccataac aagctagaac caaatatcaa gtgaaaaatt 300
 gtgaaaaatc accaaagaga aaatgcgcct tgctacaatg aatcctcaat ttgagaccaa 360
 gaacatgatc ataaactcac tatagtgaat gaatc 395

<210> 5197
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5197

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttggttc 60
 cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180

cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggccca tacttgatgt 240
acattgtata ttggttaaat gttggacatg ctgaatgaaa tggt 284

<210> 5198
<211> 408
<212> DNA
<213> Glycine max

<400> 5198

agcttcacct tctggctctc ctcatagttg tggcatgaga aaacatgctc tattttcatc 60
tcccacttta tgtggcctcc ggatcattct ttcctttaaa tggaggaatg ttgagtttaa 120
taccatcaat tccgttttgt ctaggaacac catcattccc tcttctctc ctttcttctt 180
cattatgatc tctattctcc atttgatcca acctctcgtg gagcgcatca tctcgttggt 240
tcattaacct ctccatagt tgcatcaaag cttgcatttg gaattgcaa agccccactc 300
catcattagg attagtagct gacatctcaa acaaacaat caaacgtaac acgacaatta 360
tagttgctgt ttgaatacct caccactca agtgtatcac acaattat 408

<210> 5199
<211> 284
<212> DNA
<213> Glycine max

<400> 5199

tctgttatga atttcgagtg tctcgatata ctacgggaca caatcggaca tccgagtaaa 60
aagttattga catttgaatt tgctcatagc attcgttgctc aattacgagc gtctagatat 120
attaaaggat tcattcggac atccgagtaa aaagttatta tctttttatt ttgctcagag 180
cttctgtttt caatttcgag catctcgata tattacagga ctcaatcgga tatccgagtc 240
aaaagttatt gtcgttttga tttgctacga gcttccgggt tcaa 284

<210> 5200
<211> 427
<212> DNA
<213> Glycine max

<400> 5200

agcttgaggc acttgccctt taacctagt tcccaaaagt ggccttacct aaggatcttg 60

ttttccatac attatgaaaa ttggcacatt gattttttga catctaaatg gaaaattaac 120
 ttaaatagta ttagttatca ttttttgaat ttactttcag aaaccaaact tcagactgaa 180
 aattcactag catgttatgt cagagaacac ttgttgcatc tgatccccac atccttataa 240
 gaaataactt aagattttca catcccttac gatataat tttt gctaagtttc agaacctcac 300
 acacaaataa atgtagcagt agattcaaga ttatagcgtg ccccatagat aatacaaaga 360
 aaatcaaata acatataact tgtgtacctg atacaaagat tgagtcattt gttttat tttt 420
 atagatg 427

<210> 5201
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5201

ttaaaatttg aattaaaacg ttcagaaact gctggtaatc gattaccata tatgtgtaat 60
 cgattacacc gtgcaaattt tgaattcaaa ttttaatagc tgttgtaaaa catttttggc 120
 cactggttat agattaccaa atagttaata acttggaag ataacttttt aacttaaata 180
 tcttgacaa accttttagct aaatcaattg gaaaacgctt cgaatataat atacccttgc 240
 taagactcta gagactgtct tgatcatcca tattgaatat gct 283

<210> 5202
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 5202

agcttgcaga gttatgtctc gtattagttt aatcgattac agccttatcg taattgatta 60
 cacagt tttt gtgagataat gactaattta ttcaggagtc tctgctttta tcgattacca 120
 tgtgatataa tcgattactt ctctttctat aagtgtttca aaagtgaaca agaacacatt 180
 aatctattac tttgagtatc taattgatta cattgttctt aagccgtttc cagtttttgg 240
 gaagaatact ttaatcgatt aaaaagataa tacaatcaat cacttcattg aattaatcga 300
 ttaccttgta gatttaatcg attatagacg gttataactg ttttctctat aaataaccag 360
 cttgtgttct cttaacata caacaaaata agcttcagtt agagctaaga tcacgtgtgg 420

ttattaggtt aagaaaga

438

<210> 5203
<211> 278
<212> DNA
<213> Glycine max

<400> 5203

tgtaatcgat tacagcattt gtgtaatcaa ttaccactaa ggaattttca aaaaataact 60
cccaagagtc acatctattc aaaagatttt tgaatggcca tcaaagggtct ataaataggt 120
gacttgggac acgaaatttc ttagagtttt cctgaacaaa ttgtcttata ctctcaatac 180
caaattgtct tataactctc aaaaagaatt ccttggccaa aacacttgca aattcaataa 240
ggaatcttaa gtgatcttca attttaatat ctttctct 278

<210> 5204
<211> 413
<212> DNA
<213> Glycine max

<400> 5204

agcttattta tttgattaat gaatcatatt gattattaat taatgcttta tttgtttttt 60
taattagcaa aagtgatgat atatattata cacaaaggggt aagcaaccta tttacaagta 120
ttgaaaactg aaaatactat ctccatacct tggttacaaa atattaacat aacaacaata 180
taaataattaa gtaaccaagg aatccaaaaa gagaaagttc acctccctgc aagtcactgt 240
aatactacta atgacaatcc tacccaatca ccaaaaaaac ataaataatg ccttaccctc 300
ccacatgttg ttocccaaaat attaatgctt tatttgttgt tgatgtatgc aatgcaaggc 360
aattgtgaat cccaagaatg aaggatttca tgaatgagag caagctgaat gat 413

<210> 5205
<211> 275
<212> DNA
<213> Glycine max

<400> 5205

tgaagtcagt tggattcatg tattattatt cgtgtaatgt ataacttcta ttaggatatt 60
gctatttgca ctatccactg ggatgcactt taaccatata ccaaaattgt tccttgagga 120

attgcacatg attatttgat ttcactccga ataacaatga aatcatattt tttttgtttt 180
 aaaagacatt ataatagata taccattcta ttgtgttatc atccgataat gaaatcatag 240
 tttaatgtgt tattttttcaa aataataata aaaaa 275

<210> 5206
 <211> 878
 <212> DNA
 <213> Glycine max

<400> 5206

cgaccaccct ccgtagcat gtatacaaca cccgaaggc cgatgactct tatggtcctt 60
 tccggaccgc ggactcctaa aaaaccccg cgcgaacatg cgagaaatgc tctgctaact 120
 taatcaacaa cgccttcacg gaatggatac ccagttttg tgccaccaga ctaatttatt 180
 caggagggtc tggcttaatc gattaccatg tgagataatc cgcatactc tctttccata 240
 aggggtgcaa aagggaacaa caacacgttt catcgattac cttgaagatc taattgatta 300
 cattgttcct aaaccgctcc ccatatttgg ggaagaatac cttaatccat taagaagata 360
 ataccatcat cactctagtg aattaaacga agaccgtggg gagtaaactg ataactgacg 420
 gctaaactgg gttctctata ataaacagcc cgggttttct gaacatacaa caaacaacc 480
 tcagtagagc taaaaccctt gggggtatcc ttgaagaagg aaaaaaaca agtttttaaa 540
 acaatccgta cctacagtca gacctctggt gggaaaaaca tccgtgaaag accggagtgt 600
 cacgctcagg gcaactgcga agcaccatgg catttcaact aagggttatt ggagaggctg 660
 acccaaatat gcatagtata cccctgggtc atcgccggaa ggggtctgcc cgcacgggtc 720
 cgctcaagg gacggtacat cacacagcga tggccagcac agggatatgt ctgtgaggag 780
 cgagtatgct accaccgtta tctctacgca cctacgtgtc ctcatgccgc tcccgaact 840
 gagcactcac cgtgacgcta tctctactcc atgcaccg 878

<210> 5207
 <211> 1104
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5207

ctcatgcaca cccgctaattg aactatgtgc attcattatc caggcggcta acaccgccta 60

gggagttccg aagaccatta tattaaaaat aacattagtt ggcatacgaa acacacagtt 120
 cactgtaatt cccaagtggg catccagcac acttgggcaa caaatgcnta cacaataaca 180
 atcctgcctt ccattaaatt agaggaaggg cccttgctat atataaatca atatgtgaca 240
 acaatacaac gttgactact ggaatataca gcacgtgag gtgaggctga ccatgagtc 300
 ccataaatca tacctctata agacgtctca acccagtgat ctgcgattac acgagcggct 360
 actaccaact tgagatctgc ncgtaaatac accagaataa cactccccta ctctgaatca 420
 acatgagcgc cccctgtaaa tggagaggat aaaaaatctc tcattatata attaacacct 480
 tactataagg gaggcttaac caagacctcg ctctatagga caccacaaat aaacacaacg 540
 gtacaactca caactcatgc gctattctgc ccacttctcc gcgtctcaat agagattcac 600
 gcagaagacg cctctccaga atacctcctt cgaatatctc tccctgatca ccctcttggt 660
 ggaatgtcat ggcaccggaa ccacaacaac atattctgag accacctccc ctacacaga 720
 gtaagagtgc gcggtgatct tccatactct aaataccgta attgaaatac ttctggcaaa 780
 aatacaatta gcatacactg ctgcagactc tatananaga catattatcg ggcgtcctat 840
 catcacctct cagcagtggt ttctgggtca catccaagat cattatatag catgacaaac 900
 acatggcggc caccaaaacta cccttatatg aaccacctct accgcgaggg cgggctattg 960
 tcatttatct cacagacata gtactacaat tcttatatcg ctgagacata cagacaactc 1020
 acctacgaat cacctccatc taatatcaag cagcgtacta taccctacga tcatcgcaat 1080
 gtatactatc atagtacata cacc 1104

<210> 5208
 <211> 481
 <212> DNA
 <213> Glycine max
 <400> 5208

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60
 cttaggcact tctctctttt tcgaatttgc ttggaaaaat tgtttccggg aagaaaattc 120
 aagccgaggg gcttccgaaa cgtttccgtg aggaatttgc caaaagtttc gaccgttctt 180
 cgacgttctt cattctttct tcgatcttca acgggtaagt acctcgaacc aagcttttctg 240
 attcattata tgtaccctgt gtgggtccaca ttgtgtttcg tgtattttta ttctcgtttt 300

atttactttt tataccccctt ttgacgtgc ttaagccatt ttatttaagt catttatcgc 360
 ttagactaaa aataaaataa atttccaccg atcgtttgaa ttattttatc cgtttaacttc 420
 cgggttaaac caattccgac cgtttggtcg tgccctaacc cccggtggga accaaaaaag 480
 a 481

<210> 5209
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5209
 tctactgatg tggcagggcg gggccccttc ggcttggtgt cccaatcgcg agccttggcc 60
 tctgttcttc ctttccgaga ttttttctt tatgtcagct tgcgtaggtt tatagcctaa 120
 cccaaacttc ccgcgatttc ctctggtgct taccaggctg gttctgccgc cgttgttctt 180
 gcccaaacc attacgggct cgtagccgta cccaacatc acccgggcca ccatcattgc 240
 cgtatcatat aggcaaggct gccagagag ggaatctacg gaggcaa 287

<210> 5210
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 5210
 agctttgagg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgggtctacc 60
 atcacgaaca tcgttttctt ttccatcatt ggggggacca cctgggccgc caaaaccctc 120
 caccttttgg gcgtgttctt tgaaaaatcc gtcccccttt ttgcaaagt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaaag caaccattaa 240
 gtccttccaa aaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
 agtaagactt tcttgaagg aatgtattag caattcctca tcttttgcgt attcccccat 360
 cttctgacaa tacatc 376

<210> 5211
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 5211

tctccccaa ttttctataa atatggggag aagtgaagtg gaaaaggggtt cagcccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattggtt ttcgtgaaga aaatccaagc 120
cgaggcgttt ccgtaacggt tccgggagtg atttcgcgaa ggttttcgac cgttcttcga 180
cgttcttcat tcgttcttca tcgttcttcg gtcttcaacg ggtaagtacc tcgaaccaag 240
ctttccgatt cattctatgt acccgtgggtg gttcacattg tgtttcgtg 289

<210> 5212

<211> 472

<212> DNA

<213> Glycine max

<400> 5212

agcttgaaat tgcattgtggg tacctatattt gaatctccta tgctgtctca taaaatagtc 60
ccaccatccc aattttgcaa aaccatattc atatatcgcc ggggcatttc accgagcact 120
tggtggggcgc acgtttggac ataaattgca agagaattgg ggcaatgtgg catgccccat 180
tgcttcagaa cacaacatag gcctaaggcc ttctcattca aatcctcaac tcaagaaatc 240
aagcataaaa aacaacccaa aactgcccc acaatataag cacgtttctca caatttagag 300
caccaaaaga tgaagaaaat actccaatgg gaagcaaaaa actcaaggat tgaatactta 360
cttggtggag tgagtagaaa caccaaaaat gaaagcaaaa tgccacccaa agtggcctat 420
gggagcaaaa accgcaagcc ttcgtgagtt ttctcttttg aatgaagggg gg 472

<210> 5213

<211> 285

<212> DNA

<213> Glycine max

<400> 5213

ttgattcttt tagtgtgagt gaattggtca ttctattact attgttctat tctttgtttt 60
gacatgcata tccttgaatg aattctaaaa ttatgaaaa gatgagactc tataggcttt 120
cttgagacct gtgaattatt ttgattagtt tttccctag tcgatcactt tgaggatgaa 180
tgattatttt tttttgtcct taaactatat tgtgtgattt atagatgcga ggaaaaaagg 240
gaagtaatac acattgcagg ttgtgtcagt gaataaatcc tacat 285

<210> 5214
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 5214

gccctatagt gagtcgtatt acaattcact ggccgctcgtt ttacaacgtc gtgactggga 60
 aaaccctggc gttaccaaac ttaatcgctt tgcagcacat ccccttttcg ccagctggcg 120
 taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc tgaatggcga 180
 atggcgcttg atgcggtatt ttctccttac gcctctgtgc ggtatttcac ac 232

<210> 5215
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 5215

agcttgggaag ccaaggcctt gaggtttgtt tttatgttgt tggattgatt ttatatcctt 60
 cattcatatc atggctctga gttggtatct tccttgtctt gtgtgaatca tttttggctg 120
 taaggtttcc aagttgggat tcgggtgtat gggcctgacc aaagtgtaca atgatcctgt 180
 tcctaaagag gttggcatct ctttgatcaa atacacattc agtaaaggga tcactttctt 240
 tgttactgta gatttttatc gaccccatgc caacaaagtt ttggtcgaaa aggttaatta 300
 ccttaacact ttgtaacata tttgtttcac tttaacaata acaaccata atataatgta 360
 acataacatt ttaattaact ctgagggtgt caggggcttg cctcaagatc aaattcagat 420
 tcccccaaag tttggtattg tcaaaatgga taatggtaat gtgatagtga accggttccc 480
 ctgaatatgt ctg 493

<210> 5216
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5216

tataagatat agttaattta attgaaagaa tttgataaaa ctaattaata agttaactga 60
 tagatattaa atagcaggac atatctaata tttcaaatat ttaaaattta tttctaataa 120

atttttttac aggaataagc ttatggaatt tcattaggaa ttaaatacata taaacaatac 180
aagagaaagt atgataataa attaaattga agtcaagaat gggatgggtgt taccctaacc 240
acgattatga gcaacaactt atcatcttaa aaaaagtaag ataat 285

<210> 5217
<211> 341
<212> DNA
<213> Glycine max

<400> 5217

agcttgagcc gtactttctg aagtcgctcg acaatacttg agaaaaagaa tcggctaaca 60
gttgcattha ttgtaacaat gacaatgtca tcaacaacaa cagctataac agtaacaata 120
acaacaatag taatattagc aaaacgaagg ccatgtctcc tgagccttat cgggaggaga 180
gatcaagacc caaaatgaaa gagtcagcgg ggggtgtaaaa aaaaaaaaaac actatatgta 240
gagagtgggtc gatcgatgca tgcatacata ttatacatta tagtttaaga ctatgaacct 300
aattatgggt agtccgcaa ctctcaagaa cttaataaat g 341

<210> 5218
<211> 277
<212> DNA
<213> Glycine max

<400> 5218

tgacaccaaa aaggtctaac atactttaaa tcacaccatg ttgtgcttaa cggttgagaa 60
tagctcttgt tctttgtttt atgcagcctc tcttttttgt aggtagcata atgcttggcc 120
ttaactcaca ctttttctta ttgctttcat tgctaaatac taccctctgg gatccgagat 180
cattaatcct ttagctatga gcctatgggtc gatcatgttc gtaagctaca tcttttctgg 240
ccctttatta tttgtagata acattgttgt ggggtga 277

<210> 5219
<211> 370
<212> DNA
<213> Glycine max

<400> 5219

agcttgccgt tcttatgttc tgacgttgtg actcattaac ttagtcatga aagaattcat 60

attccataat ttaagatagg accctatatt tcagtaaaag agggtcacgt attgtaattc 120
atggcacgaa atgtctactc gacaatataa ccgccatgac tcatgtgcaa tcatatgcct 180
atctgacata tatacaagat ttaagttttg cacacgatgg ccatatttgt gagacacaag 240
aaagattata ttagtagtat atgtgggaga atgttagcat atgaccatta tgtatcgacc 300
cacctcatgt ctacacctcc acactctgat agttgataat ttcaattcct ataaaaagaa 360
ctcccttaat 370

<210> 5220
<211> 283
<212> DNA
<213> Glycine max

<400> 5220

tgatgtgcga aagcgtggaa tagtcagtct tcctactttt gattgttgac cacagagtgg 60
tacctgtaga tatgtccctg gggcatgag accttgggga ccttctgtgg ggtgctattg 120
cccaaaacca agcttgacta ataccgagcc aaccctggca ttatctgatt atgataacct 180
gtgacctacc tagatgagct agccctgtcg gtctgcctat ctgggagctg agcccactaa 240
tcaaggaggc ttgtgtggcg gctggccagc tatgtatctt ggg 283

<210> 5221
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5221

agcttaggta tggcttccaa acacatcttg aaagagctca acgatttgca gaatgatcct 60
tttacgtcat gcagataagc ttctcgatcc ttttttctgt ttttttctgt cttttttggt 120
ggggtgtatg taacaaaaac tattatttgt gattatatat ttatatattt attgcaatgt 180
gttatctaata atataaatg taaaggagta gtgtgtggaa atgtccaaaa tggacatctt 240
ttatcttaaa tctagatttc attttttaaa ttcagacatg agttttgatt tagattatgt 300
tgtaacagtt aattaattca aaatatgctc ttttatgata atttttattt gatnttcatt 360
catttttag attttgttt ttttcttta 389

<210> 5222
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 5222

tcaacgaatt tatcttatat ttgatgtgga ttacagttat taagttgttt gcgtcaagta 60
 aactaaattc gtttaacttta atagcaacca cgggatcaat gtaatacgct gtttaactaac 120
 ttcaatatgt agtttaccag aatgagtggg aagaatatca aactaacgaa aatgatagaa 180
 aatgacgaga gaacttcacg gatccattgg tattattata ttgtataatt tgataatccg 240
 atggagctca cagaatgata atttcatcaa agttatttcg t 281

<210> 5223
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 5223

agctttgata ccagttgata caagtgggtc aaaaagagtt gagttttattg aagaaaataa 60
 agaattttct ttatattaga agaattcaag gggttctggg ccctcctaac aatccaaact 120
 acacactaaa aaatataatt ctctaccagc taagtttaat aaaactcata actttcctaa 180
 caatctataa cagattccca cccatgataa aaaccttcaa actgtactaa ccaacacttc 240
 tgtttatttg agcctcatca ttagctcgcc catccctcct cctaacatag acccttttaa 300
 ttaagggttct agtatcacia aaaaataact gtcaatgcca aaaccaaact tattttaagt 360
 aaacacttcc acattgcttt ttttctcaat ttccagtcac taacagtcta tttggatgag 420
 aaatttgga atttaaaaaa tttaaaattt taaattttta attgctttta ttaatatc 478

<210> 5224
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 5224

tgcggaagg aatgagcagg aaagtttctt ccgaagaggg ggggcttttt ataatttttt 60
 attaaagggc aaaattgccc attccaaaaa attgttgggt gcaccagcaa tattgctgag 120

tgcacctagc atctccctct aggatttcat ggtacaagag aataaaacag cccaatattg 180
 agtaggcttt gaagtcaatg aagcccaata ccatcttggg cattatatat ttccctcttt 240
 gatatttgga aattctgaat tcatcacatc accctattg 279

<210> 5225
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5225

agcttttagat attagctgaa agactcatgg atgactttat ctctaaaatg caccctcatg 60
 aaagagcccc tctcacttga agtgtggaat tgtaccttat gttgaaattt gactttttac 120
 atagaagaaa gtggtgacaa ggtcaaactt ttgaccactg gccgttgaag ctttgatacc 180
 aagattaaag aaaatggttt agagaaattg tttgttaggc agcataaatg ttttagtatt 240
 tacaaatcct atttacaaaa tcagagtact tctaacttaa cacaaataca ataacttgta 300
 tagtaatcag taggcttaat taattatact tttggctcct ttgtgatagt caatgtgtga 360
 tttttgtcct cttataattc tttgcagcaa tcaaatcctc cattgtttcc caataaaaat 420
 acttttggct cctttatgat 440

<210> 5226
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 5226

tgcttctaca tatgggttct atcgcacaga atggcatgat cactggctga catattctca 60
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 gcaatttctt gggttgtggt atcagcccat ctataaacat attcaattga attgtcttgg 180
 aaaacctatg ggtgggagtt cttctcaata aacctctgaa cctctccaat gcttcactca 240
 aagattcatc aggggaactga tgaaatgaag agatta 276

<210> 5227
 <211> 969
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5227

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attagcacac atccaccta ctatacccc ccgctcggac cttganttcg tgtgaccct 60
tcccanaccc cgaaccgctg acaacaagcc gcaaggcgca agcccaagaa accagcatgt 120
atacagaggg tctttaaggg gatgtcgttt agcgcaggaa aaaaagagga tcttttttta 180
tacttaaaac caatccatag ggggtcaggg tccctactca acaatcgcac agtgaccacg 240
gccgccgata ctttccctcc caccacccc gaggttgatg agcaactcaa cacctgccct 300
cacaccactc taggcctctt aacacacccg ggaacgaaac cgttccgact gaacctaaaa 360
ccccgcttca tgcccaacag gagccccacc aaatatacgt ccccgatccc ccaactgcga 420
gccaacagcc cctttccatc agggtagcgc acttcacaaa aaaaatactc tgtcgaccgc 480
cccacaagcc aaacttattt atgagaagac accatccaca atagcctgcc ttcgggcctt 540
tccaagccac cacaggtctc tcacggatga cagcaccocg ggacatttaa ggaatgcaac 600
actgccctga ttaaaagagc gcctctcccg atgccttccc tagacacact accatagctc 660
ggagaaacag agacaccgcg caaagtgtaa aacaaccac ccccaatggg ggaaaatacc 720
ctccgcacca agactcgtct taaaacacc ccccgctctc atctcatcgg gccagcccac 780
caaggccctc tcaaccgcg gacacaaact ccgttccggt cctcaccacc acaaacgagt 840
acagcccggg cgcacaaagt tcacccaat accctcctca cgaccgctgc ccgatgacat 900
gcgatagcat acgcgtagcg aaacacacc ctttgttcag cgcaccaaga ccaacaacac 960
cgctcccc 969

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<210> 5228
 <211> 910
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5228

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ttgatagacc natgctccgg caccggggga tacctnanaa gaaggacctg cagggctgcc 120
aacctttata taagcactcg gccacttaga ctatttgag taaaaatggg cacaaaaatt 180
attcgcacga gatacgtaac ccaattattt aggtatccca agtatagcaa ccaagaagcc 240

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agtttatggg caaaggacct accttggggg cgcaggatta acccaaccat tgggcccatt 300
 gaattcaaac aacgttaagc attcatatga catatgtaaa tgcattctaaa gccatgtgca 360
 aaactacaag catagtgtcat acacttgggg tttaatctaa caccctaggg ttatcatgca 420
 cctaaaataa tgggtgagca agtgtaaaga tcttgaccca ttccagcctc aaaaccgcat 480
 agaaaagggg ctgggacatt tattaacag aggggtgtggg caggtaaaac ctggctaact 540
 gaaggatcag gagcaattgg acctgaaaat cataaaagaa tctgggatgg gctagagcca 600
 ttcctttaac cccaatcca agcatttggg acgtgggtgg cccgacactg tcttccaagc 660
 tgggcagacg aacatcaagg gccaaccttc aagggaacgg gaaaaataaa cggaaaggac 720
 cctcatttgc ggggaataag gaatgcaccg atgaacaaaa ggggctaaaa actggaattg 780
 tggaacaag gagggcaaag gccctggggg gctctcggga gttggaaata aagggggaga 840
 ggggccctta tctcagtgc actgcggagg gcaccaagat atcgcgagtg aagcgcacac 900
 caggcaaacc 910

<210> 5229
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 5229
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 ataatgaact aatggacaat tgtactatga tactactact tgataaattc ataacccttc 180
 acaaacaatg tttctgctga cctaagcatt aacagttaaa gaggtgattg atatatacat 240
 cactgatcaa ttcaaatttt tctccaaaac aaaatctgaa tcttatagca acacataaca 300
 tgtatataaa tttatattca ttcttgggtga taaaacttga agaacattta ataaatttac 360
 tccatgcgac aaataaaactc aaacttttgt agcttataaa ctgcaagcat atcatgctca 420
 atttatgggtg gcaaaagcat gtctttcaca 450

<210> 5230
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5230

tatgaacctc gcgtatttga tattaagcta aaatggaatt acggactctt ttttatattc 60
gaggcttttag gttaatttag tcccttgagt tgaattcttt ttttacttta gtcccttata 120
atcttctatt agatcaaatt ggttcttctt cegtgaattt atcgcattag tttggacaac 180
ttaaactgta gcatacatca cttcatgcaa agtcgatact tttagtgcc tagtttaaca 240
tggatgctaa aaggacaacg cgaaatTTTT aacacttaag agatcca 287

<210> 5231

<211> 434

<212> DNA

<213> Glycine max

<400> 5231

agcttcttgc aacattatgg tcaatgagct gcataatgag gggaaaaagc aattttcctg 60
ttataaaaaa tatattagcc aattttgatg atgctttctg agaattgaga agcttgcctc 120
ctaaaaggga ttgggatcat gctatcattt tgaagaaggc tcaaattcct aatatttgcc 180
cccacatgta tatgcattat caaaaaaatg agatagagaa gattgtgaag gatatgcttt 240
gtgctgtaag gcccaacact aaccctttca gtagccctgt tatacttgtc aagaagtatt 300
gtgtgtggag attttgtata gactatcagg ccatagacaa gtaaaccaccg gataaatttc 360
caattcccat aatagatgaa ctactagatg tattgggtga tgcagtgatt tttgtaagat 420
gaactactct tttg 434

<210> 5232

<211> 285

<212> DNA

<213> Glycine max

<400> 5232

tggagaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 60
gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc gcaagactct 120
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta agtatcttcc 180
ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
agctagagct tagctacaca caccctctca ataactaagc tcacc 285

<210> 5233
 <211> 1099
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5233

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gggatacaga gccatttgaa acntgtttga taacggtagt aatacagcga gatttttggaa 60
agaacctcct tttggaacat gtaaaaggca agaacttatt ttctaaaaca atgcggtgaa 120
gacaagcaga catgtgtagc gcgtgtgtat tttcttatat gtgagaaatg ggagtttccc 180
ctcattagcc tatcccccaa taagaagagt gtggggtaaa ataatggtta tgggaggata 240
tactgttttt cttaggggag ggaacaaatt tgggaataat atggtaagaa aggcgctcgtt 300
gcggggaaaa ttatggaatt atatttgtac cgataaagat cgggagagaa caatatctta 360
attgaaaaga atggttgtga tagtaggat caaaacaatt ggatacataa tattagctct 420
gggaanaagg agttattgcg actttttcta taacaaatca cattttttgg agaagaatag 480
gcacttatat tttggttact attttggtgg aagcgagtga ataaaaagtg gtgtttttgg 540
tgaaagaggg ttttaaactt ttggggaagg gcaaaataaa accctaattg gatgaaattg 600
tgagccattt tgtggggaga gcatccaatg ggtgaccatt ttcaaaaggg ggggaagaaa 660
gtttatgatc gtttatttta ataagggggg ttgccagacg ctctattgaa attcttgaat 720
aaagatacgg agaataagtg ggcgcaaaaa tcacttgga tgggaaagga agaaaatgcg 780
ttgtttctcg atggtgatga aactaatgag gggaccactg attggcttat aagcgaaacg 840
gcgggatggt gatataaaaa gaaacgataa atggtaaaga aaggaaaagt aatgggtatg 900
gtattaaata aaaaaaaaaa aagcaatagt tattgttacg ttctatcggg gggaaaagaa 960
cagattgttg ttatcctcat attggatgga gaagaagagg gggaatgaaa atagtattcg 1020
tgtggaacna ataaaaacaa tgagcataga gacgaggtag gctatgatgg tagtggtgta 1080
agtgaaagtg tataactaat 1099

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<210> 5234
 <211> 168
 <212> DNA
 <213> Glycine max
 <400> 5234

tataatatat cgaggcgctc gaaattgaac aacggaagct cttgagaaat tcaaattggct 60
ataactttta actcggagtt caattcatgc gcatcacata tagagacgct taaaaatgaa 120
caacggaagc tctccaaaag ttaaaatggg cataagtttt cacactga 168

<210> 5235
<211> 461
<212> DNA
<213> Glycine max

<400> 5235

agcttatgcg catacttctt tacgaacggt cacttgcaca agacattctt ataactaaga 60
aaaatgcacc catatacaat caaggcacct tcgttaccta gattatttat atgtacttcc 120
aaggtgtatt tggtacctac atcacacgca tttcctttgc taaatttaca tacatgctta 180
ctcaaagcac tttggctatc aaaattgcat acgtgcacat tctgggtattt ctaatacctg 240
tacatacaca aacttcatga tgaatcttga ctatctacac aataagggtgc tacatttcat 300
gctttttttg aagtgtttc actacctaaa gcgcgatgca aattcaagta tattttcttt 360
tgccgattaa aattgtattc aaattaaaag gtatttttgt aagggtatttt ctttacataa 420
catgcaacat atatattttt tttgtgaaac attttgacta t 461

<210> 5236
<211> 282
<212> DNA
<213> Glycine max

<400> 5236

tgaaattgaa catcagaagc tctcgacaaa ttccaatggg cataacttgt cacaaggaag 60
tccgattctg gcgcacacata tatcgagacg ctctaaattg aaaaccggaa gctctcgaga 120
aagtcaaaaag gtcataactt gtctcacgga agtcagattc gggcgcataa tatatcgaga 180
cgctcgaaat tgaacaacgt atgggtctcga gaaattcaaa tgttcataac ttgtcacacg 240
aaagtccgat tcaggcgcat aatttattga gaagctggaa at 282

<210> 5237
<211> 468
<212> DNA
<213> Glycine max

<400> 5237

agcttcttta aagccatcgc ctacaaagac acatccaact aaaatttagc ataaaaatta 60
tttcgcatga gatacataac catattatth tagttatccc aagtatagca accaagaagt 120
caatttatgc gcaatgtacc taccttggtg caacaagatt aaccaaaca ttaggccaat 180
tcaattcaaa caactttaag cattcatatg acttatgtaa ttgcatctaa agcaatgtcc 240
aaaacttcaa gcttagttca tacccttggc atttaattta acaacctaag tttatcatgc 300
acctaaaata atgggtgaac atgtgtaaag atcattaccc attcaagctt caaatcaca 360
tagaatagtc attgtgacat ttcattaaac agttggtgtg tgcattgtta aacatgtata 420
aatgagggga taggagcaat atgacatgaa aattcataaa agaattcat 468

<210> 5238

<211> 285

<212> DNA

<213> Glycine max

<400> 5238

tatgaaacaa caccttttct gtctagaaat tacagataat gccaaagtaat tatagaagga 60
gcactttcat ttctattata aaacttggtg ataaagcata atagtacatg aaatgaataa 120
cccaccacta gtacaaattc atcccatgaa tatattgcca acccaaaact ttcaacttct 180
tgcttttggt tagggttaac ctttccgaag cttacaattg ttgtaacaaa gacataaaaa 240
tgaatgcttc tttctaaagc acaagcattt taggaaagaa aggag 285

<210> 5239

<211> 407

<212> DNA

<213> Glycine max

<400> 5239

agcttaacaa ttaccttatt aaaaattatg atttatttaa aatgacataa aaaataataa 60
aattatcatc tagttaagaa aaataacacg aaaaatgaat aaatatatta agaataaaag 120
tgaaagaaaa tataaaaaat taaaaattat tatttaaaaa aactgttatt taatgtttta 180
aaaaacaata gaagttactt aaaaaaacat atgtttaccg aactgttaaa caaatttttc 240
aaataattaa aaaactaaaa attaattaaa atgttttatt aaacataacc taataacact 300

cattaataag acactaaatt taggcttttt tttacgttaa tgggtgaatt tttttcaaaa 360
attaccaaaa ttaatacctt ttgaattatt tatgaaagga ataaatt 407

<210> 5240
<211> 285
<212> DNA
<213> Glycine max

<400> 5240

tggaccgttg gacgtgcatt gcatgaaaat aattagtata aaaaactaac tgatcgctat 60
aaacatagtt tggaaaaaca aaaaggaagc atcattacgg catgtgcaat gcattatatt 120
aaaaatagga caaaaatata tttttgatta ctatatcttc atcaaatctt atttttattc 180
tttaaaacttt tatattctct aatttgatcc ctaatttttt ttttaaaca tgtttttagc 240
tatttttcac agattttcat taacaatggt aacttgagtt gtgtc 285

<210> 5241
<211> 438
<212> DNA
<213> Glycine max

<400> 5241

agcttttttg taatggatat gattttcact aacaaatatg gttaaacatt agactttgaa 60
tgtatcatcc aacgagtgc aaaaccaact tattttaa at caaatgtgga ctatcgtcca 120
atgctagtaa aacagagttt tcaaaaaagt tttcaagtgc agacttgtgc aacaaagtgt 180
atcaaaatca acacaaaaga atactaatca agtagcttta gagagaagta gaaacacttg 240
gatttatacc aattcactca aacaaagcta tgtctagttt tcctttgcaa atcaataaag 300
ggttctacta atcaaaactt gattacaaca agtctatgta ccaaaagcga gtatttttca 360
gcctctatgc attggcgaat atttttccac caatactcag cttctttcac caaaatatat 420
gtaccaaaaag caactttt 438

<210> 5242
<211> 195
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5242

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caaatgaggt ctgaactttg aagtgttaatt ctcaaagatg caaagttaca acaagtgtta 120
cacatgcttc catttatagc ctangtagct tccttgagaa gcttccttga gaaacttcct 180
tgagaagctt ttttg 195

<210> 5243

<211> 418

<212> DNA

<213> Glycine max

<400> 5243

agcttcaaaa ggacattagc aacttcactc aaaatgaaca agagaactct tcagaagcct 60
gggaaagatt ccaagagtta ctgaggagtt gccacatca tgggtttaac cagtaaagga 120
tagtgtacat ttctatagtg gagtgtcctc tcacaacatg actggccttg atgtatgtca 180
aggcaatttg atcatgaagc caaccgttaa tgccattata atcattgaag atatgtgctc 240
aaatccctat cacaattatg gggttaggag aatcatgaag acgctcgatc aaccaggtgg 300
aaactgaagc agctactttt ggccttgac gatagattta agcattgtcc aagaaattca 360
gagttgaatg aaagctaagt ctcaagtgcc tatctctaca cctcccaatc acacttgt 418

<210> 5244

<211> 281

<212> DNA

<213> Glycine max

<400> 5244

tcaagttttt tttttctgtc agcaaaaatt aaagcttcaa gttgattaat tctccatcgt 60
ggcttgcttt ttaaattggt tatagctagc gtgctgatta tatatcttct ttaatcaaga 120
aaaactctgg ttacttgaga tgtactctat agggaaatat aacgcgattc tggggaaaaa 180
taatattaac aatgaatata ttatggatct atttcttagt gaccgacatg tctacaaatt 240
ctataaactc ttctcagtaa taattaatat gccctgatc g 281

<210> 5245

<211> 439

<212> DNA

<213> Glycine max

<400> 5245

agcttctata tgaccaaccc atactttccc atgcccttac aaaactctct agtgataaac 60
tactttgcat gtgtcatccc tgaaaacaaa aagaaaggca tattgataaa ggcatcaaag 120
tatgaatgca caaaccaacc ttttcaacat agcaacgagt gagaaggatc acaaaacaaa 180
ggcatccgct gtccaaacta tttgagttac acgaaaaggc aaattattga ttcaaagggt 240
gtacacaaca atatagagta tttgacgaac atggattctt tttaaagtga tagatgcgag 300
taggttttga aaggggaaac agttcttttg aaagtatgat aaagcgattg aatagcttta 360
ttactaaca aagccaaatg caaccgtaga aggatttgaa aaaaaattaa caatgaaaag 420
aaagtcattt attgttaaa 439

<210> 5246

<211> 276

<212> DNA

<213> Glycine max

<400> 5246

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tttctcggag gaagaaagaa agaaaaaacg gttataacaa actttttttt ctgctacggc 120
tgctgctgtt gcaagttggg gcgcctccgg aaatagcgcg tttgttggag gaaatccggc 180
gagaaaacga cctatgcaag agcgacgtcg tttcttcttc cacgtgcttt ggagccgac 240
ccgagcttga cgagttcatg gtccccctt ctttct 276

<210> 5247

<211> 419

<212> DNA

<213> Glycine max

<400> 5247

agctttacta gtgttccaag acatgatgtc tgctggagaa tgtccaaact atgtaacctt 60
cattggggta ctttctgctt gtgttcattt agctcttgta caagaaggat tctactattt 120
tgatcagata atgaagaaat ttgacgttga gcctggactg gagcactaca catgtatgg 180
tgcacttttg ggtagggtg gtttacttga tgaggctgaa aactttatga agacaacaac 240

acagggtcaaa tgggatgttg ttgctgtggcg tacttttgctt aacgcgtgcc acattcatcg 300
aaattacaat ttagggaaac aaattacaga aactgtgata cagatggacc ctcatgatgt 360
gggaacatat acattgctat caaacatgca tgccaaggca aagaaatggg atggagtgg 419

<210> 5248
<211> 275
<212> DNA
<213> Glycine max

<400> 5248

tgtaagttag ttgtgtacct attatcactc tgcataatgtg aaaattattc tttgaaattc 60
tgaatgtggg ttcaaaaagg tttcaaggcc ttggtgggta tccaaaatgt tgtatctctg 120
atcgattagg aatcagaatc aagaagcacc aaactacaaa ggaagcatgg gaattgcttc 180
aattggagtt tcatgatact gatagaacta ggctcaaggc tttaaattcaa ggaactgagt 240
tcgaagatga aagagagata attttcagag ttttc 275

<210> 5249
<211> 950
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5249

gaacgaggct atcgaaaaca cgctattgaa taccctctcc ctcaacgcc aacggccacca 60
ttgacaccgt ggnaggcaac acactacncc cngacaccgg aatagaacag caagcaaaca 120
ccacgcacat cgaactgtta agtaaaccaa ctttctattc acccatgcgc cgaccaaacc 180
acgcgaaggg agaataacag ccttggtttg gtgtcggccg cctgcccacc acaccgcaa 240
gggcccataa gataaagggc agaaaccggg taagtacaca aaccaaacc ttttaacaag 300
caaccatcga gaaagatcac taaacctcgg ggtacgccgc cccaacccat cgtgtgcgga 360
aaaagccaac ggctgattca aaaggcggac acagcaatat acagatgtag aaaaaaacgg 420
ggtcctgttt aaagggaaca aatgcgagta ggccgggaat ggggaaacat ccctttttaa 480
acatgataac agcaagcgca aagcattata actaagcaag aaacaaaagc aagcgtgaca 540
aggagctgac aaaacacctt acaccggaaa caaagacatc ttagggccgc acacgaaccg 600
aaaacggaac aggggttcgt cagtaaaacg agaccacccc cacgtctcaa tcgcccagac 660

agaccgcaca agacaaacga aacgtacaga gggcgggtac ttaaaaaacc cacctctgag 720
 ccgacaagaa tcccacccaa gcacagaaac tccaccacgc gacagttgga atcagaaaaag 780
 aggcccttgaa aacgccaa at gcaacaggcg cattgcaccc cgcgctcgca aaccccagcc 840
 tacaggagct atcgcacctg aagacaccca ttcatatcct ttacatcgaa caccgcacgg 900
 acaccaaagc catccaacac ccaagctacc gtgtagcccc acgaacgccg 950

<210> 5250
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 5250

agcttgcttc tacatggaga tgtacatcaa gtccacttag tacaaaat tt ggcttatcat 60
 cacaaatgat gatattccca tcctaaatta aaagcacaat gggcagatgc tgatctggcc 120
 actatggaac taaacacaag agctagatat aactagtat gtgctctata taaaaatgag 180
 tacaaaaaga tctgttggct taaaacaagc aaagagattt gagactcatt aagcacaac 240
 tacaaaggta caaaatatgt cagacttaga aaggctgcaa ctctaactag acattacgag 300
 aagttctcca taaaagaagg agaatttggt gatgacatgt ttgagagact gcaagttatc 360
 ctaaacaatc tataagcttt gggacaagcc tataccaagg ctcaaataaa cttgaaagtt 420
 ctagacaac 429

<210> 5251
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5251

tgccaccag ctcgcccagg caagccaggt tgcattctcc aaaagcaact gccttctgga 60
 ggaacatcct ggaaagccta ttgggcctgg ttctatattt tacccttttt tagtaaatac 120
 acccccattt gctttttttg gtgattattt ttctgtaatg ttacaaaact ttacgaattt 180
 cgtaacgata cttgtttttat ttctgtaaag ttacggaacc ttctgggtca tgtaattact 240
 ccttttttag ctttcggaat gttacggaaa ctacggatt gcgta 285

<210> 5252
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5252

agcttgcagt gattcactct gatgtgtgtg gcccatttga aatcaaactct catggaggta 60
 acttgtatatt tgtctctttt atagatgact ttacaaagaa aatgtgagtt tacctattac 120
 aaagaaagag tgaagtattt gtaacattta aatcattcaa gttactagtt gaaaaagcaa 180
 tctggttggt caatcaagat gcttagaact gatggtggag gagagtacac ttcacttgaa 240
 tttgagaatt tctacaagga agaaggaata attcatgaag taatggctcc atacactcct 300
 caacacaatg gaactgctga gagaaagaat agaatagtgc aaaatatggt tagatgcatg 360
 ctgagaaaga agcatcttcc atatgatttt tgggcaaagg cagtatccac aacttctcac 420
 atcttgaata gatgtcctac 440

<210> 5253
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 5253

tgtcgaaaag gcaaagccgt ttacaaaact gctcaagaaa actgagccct tcctgtggga 60
 cgagacatgt gaacgagcct tcctggcttt caagaaaacc ataactacac caccgatcct 120
 gagtcggcct aggctaggag taccataact cctatacctt tcaataacta acaaagctgt 180
 taactcgacc cttctgcaag aggaaggga gcatctaact cctatctatt tcaccaaccg 240
 catacttcat gaggccgaga agtgctacca aatgatagaa aatatggt 288

<210> 5254
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5254

agcttgaatn tgagaataaa aatcataaga cattaagttt ctcttggcct agaagtcaga 60
 tgcaaattca gtagaacaga taaatatatg atgctctaatt ttacaaaacg aaataaaaaa 120

aataaattgg ctttcatggt gattgtaaac cttttgagtt tggacactta cacattctgg 180
tgaagctgac aaatgcagta tatgtagccg aagacaaggc aggcaaaaga aacattggca 240
aaactcggat tgccttcatt ttccaattca tatccattga tcttggtgtc ataatagcat 300
aacctacagc aatgacctga aagttgaaac cattttaagc aaaatccatt tataaaaaaca 360
ccctcaataa tcaataagaa tatattaatt tgtcagagaa aaaatttaaa atttcagtta 420
accctccatt gtcactcaat a 441

<210> 5255
<211> 289
<212> DNA
<213> Glycine max

<400> 5255

tcatttgtag ctaactgtag aactcacttt tcctaacaaa tcggaagttt tcattaatat 60
tacctatatt gttagtgtga gcaaacaaaa taataatatt tcacttaaaa aatgaattaa 120
ttatttgaac aaattaaatt ttttaattta attaatacatt aaatattaaa taatttcttt 180
aacaaaaatt aaaatattta tttgtgtatg atctcataag ttcaatttaa gccgataata 240
tattaattaa attaatatat taatcgagat agacatctag taacatttt 289

<210> 5256
<211> 479
<212> DNA
<213> Glycine max

<400> 5256

agcttgcctt gtcctatcag gttctaagga tcaaaccatt tcccaatggt gagtgatcct 60
aactaagcat gcaagtgtt gatcaaggca aaggcacact agaattaagt actgatagca 120
cagtgaacac ataaaacatc attagataga tatgaaagta tttaaataca gtaccccata 180
ggaagaacca actgaggctt tagctctcca tagcaggga gcttccttta caacaatgag 240
aagagaagat gaaagataga agaaatacaa gtagtgggga tgtctcctcc acctctagaa 300
acctcacaat ctcatccaaa gctcccttag atggcttctt cttcaagctc agctctctct 360
tagtctctcc acaacaaaa actctaaaaa aactcaactc caccaccgat ttcagcttaa 420
ataggcaatc ctatcggggg atgcgcgctt agcaaaaaat tagcttgctt accgcatgt 479

<210> 5257
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 5257

tatcagaaca acattttttt tcaaaatgca acaatgagaa aagaaagcac aaagaggaaa 60
 ttcacagaac caaatgagat taacatcaat tcacattttg tttctaaaga atataagaga 120
 aaacacccga ttcaactcagg cagaggaaaa cctctcaaag gtgcataatt ctcatgcagg 180
 caattgttcc atcacaattc caatcactga tatgtcataa atcaattttt gcaagtcatt 240
 tcccatcaaa tcaaagataa attgcataat catcatggat cattagggc 289

<210> 5258
 <211> 1207
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5258

cgtctgacta cctaatactc ctaaacta tcttctctac nctctccact agnccccgag 60
 cgcnnnttga gnactgttgg aaccacgcgg aaccgcggga cactctacag tcaagcctgc 120
 ccggcatgcc aaaccatcaa tgtgtgacat taacacacat ttttctctaa tggcactaac 180
 atcgaagcct atggctctcg cgtggtggaa atacattttg ctcgatatagc aacgcccatt 240
 atcgcaaggg agaagatgac cccctcgcg tctcgtctca tgaaggctag aatacgatat 300
 tcttaggggc tgaagtaata gggtgattgc ctacagcaaa accaacaacag gttcgcgtct 360
 tgcaaaagga gtacacatac acttcattta catctttggg ctgcacaac tatatcttgg 420
 agaagtctcg cggcaacca cctccccact gggaagataa tcttggttaa gagcgctctc 480
 atagacaaaa cgcctcagta tagaatagaa atttcacctg tgggtactta gagtaacttt 540
 aatggcgacc cagcacttat ttacaaaaa tgtttacgca ctcaataatc gcgggaattt 600
 agaaccgcac attattttct tccaacaga aatactatat agaaatgaaa ggggtacaaa 660
 tactaaacgt tgggcgacgc cgtaatatag attccttttt acaaagagac acgtgaaatt 720
 aatgagtcct cttgactttt aaacaaaaa acaagattct acaccctcac aaatctttct 780
 ccagcacaaa tagaatagaa cggttgtata cactcataaa aaaaacaaaa tcgccggtgt 840

gtgggtcacc caaaacaacg acattctcgc aactctaaga tatcgataag gcgtggggag 900
ctctagaaat acgactgccc cgccaacaaa aagctaggca ccactttaaa tccattaagg 960
ggctgtatTTt tactccgacT tacggaatca gtggcaaaac caccttntag caggcgccag 1020
cgcagaaaaa acttaaacgt catgggaccc acaatggcaa tagaccacgc tcccgctaac 1080
gcctcgacta caagaaaacc cactgtggac gcgcaacttg gccctcgtaT aaaaagatac 1140
agacgcctag ttctaggcta ccagatacct cgccgcgttt attatatgcc aaccctgaca 1200
gaaaccg 1207

<210> 5259
<211> 282
<212> DNA
<213> Glycine max

<400> 5259
ttcttTgtgaa gtgttaatgc ttagattaat ttagtttcca ctaatcaggg gaagggcatt 60
atggTgggTc aaggggacag ttctctagac tcttatcaat tggcataagc aagaggtaga 120
aaatgggtta tgaaagtaga aattcatgcc agcattctcc atgttagtgt atttgatcTt 180
ctacattgtt tggTTTTgta tgctttcaat ttgttttgaa cttttaaaca agttagtagt 240
ggcatgaatt tgtgcgcaca aaatcagggt gtattgcgaa tc 282

<210> 5260
<211> 440
<212> DNA
<213> Glycine max

<400> 5260
agctttacgc tttccaagaa tcccagcgcc aacttcgcca ccagcacctc ttctctcttt 60
cgaaattgaa ggagaaagac gatctcatcg aacgcgctaa aatttgtatt ccttttcttt 120
tgcttccatg acaattattc atttggTcct tatacctcta caattacgtt gaaactactc 180
atgttttagt ccctagacat ataattttta actcgTTTTa gttcttacac caacgcgcta 240
gtttccaagt gtgtgaacta ttagtaagaa ttgtgtatgt acaaggatca aatgattaat 300
taaaccgtga ttaattggTg gatttctttt tatgttatgt ttattatggg ggatgggttt 360
tgagtagtgt gagggcaaca tgaaccccca agccgtgaaa aagttcgTtg aggagaatca 420

aaagttggca gcggagtgtg

440

<210> 5261
<211> 283
<212> DNA
<213> Glycine max

<400> 5261

ctgttttttg tccaataaat ttaaaattga tcttttttagt ctatttaatt tgaaaagtgt 60
atgttttaaat ccttctgtct aaaagttttc tattcaaag ttgtcaaac gaatccttta 120
aaagaaaaac actcttgtca taggttggtt gataataaga atgcaagaac agagtgactt 180
accatctaag ctaatttggt agtcagacaa ccaaattttt aaggacattt aaacaaaggt 240
accaaacaca aaagcttttt tcatattaca agaacaagaa cta 283

<210> 5262
<211> 345
<212> DNA
<213> Glycine max

<400> 5262

agcttggtcc atgagcaaaa accagtgtta ttatatttga tatctaggag ggaatggcac 60
tagcagatat tgccatataa gcacaccaac atttcacctt ttttataaca gacacaatgt 120
caagcttgta ctaagagcct accctttcct ctaggggtgga attaaaaaaa ggaatttcta 180
tatgtgtgtg tgcatactta tttatttgat tgcataccta caaccatcca ttcccttatt 240
catgttcctt ttcattggtg ctgcataaat tcttgattct gtgtgggtcct ttttttacgg 300
aatgcaagat agattcctcc actacttatg tcacctaata ttttt 345

<210> 5263
<211> 282
<212> DNA
<213> Glycine max

<400> 5263

tgatcaaac aattatctaa taattccaat ccaactcaat catacaattg ctcatcaca 60
tcattctcaa acactcattt catacaaat aatccactac atatcatttt caatcaattc 120
actgctcaaa caagcttttt ggtacaagca aacaactcaa agtggtgaaa ttttaataac 180

taaaatttaa agaactaaaa cgtaaaaact gaaattaaaa tgactgaaca taaatcataa 240
aatagctgaa aataaactaa aatgttcaaa atgcacaaat tt 282

<210> 5264
<211> 407
<212> DNA
<213> Glycine max

<400> 5264
agctttctcc actaagttgc ctaatgcctg aaatgtcttt tctgatggta gtggtcctag 60
atgcaagaaa gaatttctcc aagaacaccc tcttaagggtc atccctgctg aaaatggact 120
tgggagcaag gtagtgtagc caatcttttg ccaactccctc caaagaatga ggaaaagcct 180
ttagaaagat atgaccttct tggacattag ggggtttcat ggtggaacaa acaatatgga 240
actccttaag atgcttataa ggatcttcac ctgcaagacc atgaaacttg ggagcaaat 300
gtattagtcc agtcttgaga acatatggaa caccctcatc aggatattga atgcacaagc 360
tctcataagt gaaatcaggt gcaaccatct ccctaagagt cctctca 407

<210> 5265
<211> 284
<212> DNA
<213> Glycine max

<400> 5265
tcttatccaa ggcaattctt ggtgggtgaag ctcttcttct cttggcttat tccctagtgg 60
atgggtgctc ccctatcctc ttctcctttg ccttccgctg catctccatg gtgaaaaatc 120
accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcaa 180
gcttccatca agtggtaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240
ttaatttttt ttctttacct tctcttccat tgttgtttct tcat 284

<210> 5266
<211> 375
<212> DNA
<213> Glycine max

<400> 5266
agctttgcat gtctagtgat tctagagaga gaaagggtcca agttctagag agttttgaga 60

aatTTTgcta tgtgaagatc tgcagagacc agagcttgaa gcgaaagccg ttatgagagc 120
 ttgagatgag tttgtgagtg gttgtgagat cctagagggtg aaggagacat cctcaccact 180
 tgtatTTTTg caatctttca tcttgttctt ttctttgttg taaaggaggc ttcctagtta 240
 tggaaagtta aaatcctctg ttggatcttc cttgtaggta cttgatgtaa atatctttct 300
 atctatTTTaa tgatgttttg tgtgttcttt gtgctctcag tttttcattc tagtatgcct 360
 ttaccttgat cacat 375

<210> 5267
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 5267
 ttgtgaggta actatggtgt cagtcaggag atgcagtcag catgtaatag tgctgaaact 60
 actatgcatt tggaataagg aagcatttaa agtagagaag aagctgaggg gaagtgggtg 120
 catttacctg gaagggacaa gggcaacaaa tgggtcaaaa gtgataatta aaacattttac 180
 tcgccttggtg atacagttct gaaaagaaat ctgtgggaac aaatcagaca actgaaaact 240
 gcaaataggg ggtgggggtg gctatggcta tgggtgtgtat t 281

<210> 5268
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 5268
 agctttttaga aaaaagggtta tagtttagag aataggatat agcaaaacct ctgcaaccca 60
 atgtcttgtc ctttacgtag tgaattaggc ttttgaaccg tcatccccct aacctaggtc 120
 caacgagggt taaaaaacat taaaattcca tggaaccgta tttttccgtc taaaccaaga 180
 aaagcttaaa acagattagc agttcttaaa ctcatttgta gaatttaaga caattaagaa 240
 aatattgtag acaactttta tcgtgcttcg tgcattaaaa aaaaaacgag ttactgtata 300
 ttttcttgat tttctcgact tccccctttt attttattaa gttgattcca cactttatag 360
 tactttcaat tttatTTTat ccatctgtaa ttaatatcta tacatctgca gaattatggt 420
 ttcattttgc ttttatcttt at 442

<210> 5269
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 5269

ttagtgaact atagacactc aagcttgtaa tacccttgat tgtcagcaat agaccttaca 60
 tgaccatcaa ctatgatttt gacccctcc actcccatgc catttccatc aactacacgg 120
 cctccaacag aaaatccagt tacctgtaag aattgacaat gatagcagat aattgagaaa 180
 aataacatac acataaccac aataatagac aggtatcagt aatattacaa tatcttagaa 240
 tgtggggtttg ggcctaactc aacccccaaa gctagcttgt aaggtgaggg ttgcctccca 300
 ctt 303

<210> 5270
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5270

agcttctggg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatct tcagattggg aatgcctcta acagcacctt ggtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcatc ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgtc ataggtaaca gttgtccttt 240
 gatctgctgc ctttcattag aacttcactc ttctcatttg ttaccaagca ttctgacttt 300
 gtgaagttaa cattgaatcc ttcatacaaa caactgactg atgctgatca agtttgacgt 360
 cagtcccttc accagcaata ctttgttcag actangaagt ccatcatgga ctagccttcc 420
 catccaataa tcttttctt 439

<210> 5271
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 5271

tgaactgcc a catcactctc tgattcatac cgtgttttat tgtttacttc tagacccttt 60
attaagccac cggacaccgc gcaaatagat gaactggcac caagggcaga tgataatcaa 120
ccatctocca tacccttggc tattatgtgc cacaaaagac tgtacaccga ccatgggcca 180
cagcaactgg ggataaagca atggcacgga ctacatcttg acaaaacgtc acgggaagag 240
tgaaca 246

<210> 5272
<211> 995
<212> DNA
<213> Glycine max

<400> 5272

aggacacgta taaacggacg ataataacag ccagggcctt gaacctgtga acccttccat 60
accgaaacca tggaagcaaa cccccgatg ctagaatcaa agaaaaacag tttttaccat 120
acaaaatggg aagcacctc accgcgagcg acccaaagaa aatggccctc acacgagcga 180
acaacaggcg aaggacggg ctgcccccta acccaaggtg caaacaagga ggaaaaaaat 240
agcaacaaac tctataggaa agcgtatctt cgccgcccaa accaagaaac aagcttacga 300
accattaac cagaccatca aaccgatat ggcctaaccg gagaaaactc caaaaaaaaa 360
ttgcatgaca agctttgata cgggactctc gccgcaataa aagaagaaag cgaagtgact 420
ggcgtaaaga aaccggaggt taccgaccc cccacccga ccattcgaat aaaaggaagg 480
agccccactt gtagcagtac gaaaggaatc gtaggtacac accaacaagg aacgaaacaa 540
cccaacctta cgccaacat caggaacacc ataccagcg cggaccatta agaccacacc 600
cccagtggcg gagagcataa agaaaaacat actgctggga gaaaccacaa gaaacggtta 660
aacaccaaac gcaagagaat aaaaccccg cgcgagtgtg aaaacgcgcg acctcttaac 720
gaagaaaaac cgcgctaact cttatctccc ccaaagacaa acgcaccggg gcgctgaacc 780
aaaaccctgc aaacaaaaat gagcgaaatc acaaaggga caagcacaac acgccgcgac 840
ccaagcgcag aaacacaatg cgcagaaacg gataccctta agaccactat acaacgatgg 900
acggcgacga ctaatagcac aagtcaacac gagggaaaag aaaggcttcc acacctaaca 960
catacataac acaagcgcga agaagcgtct caccc 995

<210> 5273

<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5273

agcttgaagt gagaaagtgt nggaagagtc agtcttccta cttttattcg ttgaccacag 60
agtgggtacct ggagatatgt cgcgaggagtt aagagacctt ggggacgtca agtgggggtgc 120
tattgccccaa aaccaagctt gacaaatccc gaccaaaccc gggcatagtc agtcagtgag 180
aacctgtgat gtacctaaac aggcgagctc ctggtagtca accgataaaa gaacaaagac 240
caciaagcaa ggaggcttgt gtgggtggctg gccagctatt gattctgagt gatattctgga 300
atatggcctc tggtaatcga ttaccaaggg tgtgtaatcg attacaaggc ttaaaaatga 360
agacaagaaa ttaagatggt ctctggtaat taatttccaa gagtgtgtaa tctattacca 420
ggccttaaaa tgggggt 436

<210> 5274
<211> 288
<212> DNA
<213> Glycine max

<400> 5274

tcggaagaaa gtgatgaggt acaagcccta aaggcagagc ttgaaagagc ctgggtagtc 60
gaaaaaaagt tcaagtccat agccatcaaa gtctgaaaaa agtatgatga actaagggat 120
gtcaatatgg ccaccgatga aaccttggaa tgaaaaacca aaaaggcccg aaaggaagaa 180
cacgacaaaa gcaaagtttt gaggggcttt atatggcagc aatagtgagc ttaagctccg 240
aagaggtgaa aggaatcatc acgggtcaaa tgcattgatct tgaaggac 288

<210> 5275
<211> 362
<212> DNA
<213> Glycine max

<400> 5275

agcttgactt aagaagctaa aagtagcatt gattaatact tgtaacttgt tgaagttagt 60
gaaactttgt ggtttatcca aaactagacg tagtctcgat gggtgaaatg aaccaatata 120
aattctttgg gtcttatttt gattattttc tcttctatct ttgaactaac ctaagggttg 180

aatttgatct ttgattttta aaaactatgt ttgtttttca acaatatgaa actatcttct 240
gattttctct gtaaaaacct attgtttggt ttttttttaa gtctcattag acaataactt 300
cgttgtttta aaaaaaggtt ttaaatttag taaaaatcac aacttactcc cccccccccc 360
cc 362

<210> 5276
<211> 120
<212> DNA
<213> Glycine max

<400> 5276

tttcttaaca actttatagg actaccatt ttttaacttga tacgaagatt tggtagacca 60
gatgtgttta gtgaattgag aaattcagtt gtgattgatt ggaaatgcc actgtcaatg 120

<210> 5277
<211> 459
<212> DNA
<213> Glycine max

<400> 5277

agcttgaagg tgtgtaaccc accattttcc atagtaaaat actggtaatg tgtctactat 60
cattgtcatc atttttttcg tcattgaggt gccacttgag ctgccagggt ctccaccttt 120
gggtgtattc ttgaaagat ccgtgcccc tttttgcaca tgtttttag ttgcatccta 180
tcagaagcca ttataccgac actgcctaac gaaggcaacc attaggtcct ccctggaatg 240
gactcgggaa ggttccaagt tagtgtacca gggaacaact accccaataa gactttcttg 300
gaaagaatgt atcaacaatt cctcatcttt tgcgtatgcc cccatcttcc gacaatacat 360
cttttagatgg ttcttggggc aagtagtccc cttgtacttg tcaaagtcca gcaccttgaa 420
cttgggaggg gtgatgatat tggggactaa gaacaactc 459

<210> 5278
<211> 289
<212> DNA
<213> Glycine max

<400> 5278

ttgatggtgt caagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60

<212> DNA
<213> Glycine max

<400> 5281

agcttaaaca ttcaacttcg agcgtcttga tatattacga gtctcaatca aacatccgag 60
aaaaaagtta ttgtcgtttg aatttgctca caagttcaac attcaatttt gagcgtctcg 120
atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattaactc 180
agagcttcaa cattcaattt cgagcgtctc gatatgtgac gggactgaat caaacatccc. 240
agtacaaagt tattgtccgt tgaatttgct caaagggttc acattcaatt tcgaacgtct 300
cgttttatta cgggactcaa tcagaccatc cgagtataaa gatattgccg tttgaatttg 360
ctcagaacct caacattcaa ttttgagcgt ctcgatatat gacggggact caatccta 418

<210> 5282
<211> 276
<212> DNA
<213> Glycine max

<400> 5282

tagagccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtcatat 60
atcgagacgc tcgaaattga atgttgaagc tcttagccaa ttcaaacgac aataactttt 120
tactcgaatg tctgattgag tcttgaata taacgagacg ctcgaaattg aatgttgaag 180
ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 240
atatcgagac gctcgaaatt gaatggggaa tctctg 276

<210> 5283
<211> 268
<212> DNA
<213> Glycine max

<400> 5283

agcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattgtt gaccacagag 60
tggtagctgt agatatgtcg cgggggtcaa gaaaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatccoga cccaaccgg gcatattcgg tcagtggaaa 180
cctgtgatgt acctaaccag gcgagctcct ggccgtctac agataaaagg aaatcaagac 240
caciaagcta ggaggctcgt ggtggctg 268

<210> 5284
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5284

tgttgaaatt gccatgtttg gatgagttaa acatacccat tctgttttag ggtttttatg 60
 aggatgcttg tgatgttcat gtactgaaat tgcttatgga aaactgttag agatgaaagg 120
 tagagttaac ctagggtttag aaagtgagaa tgtggtgtta tgagtggaaa aaaagtgagg 180
 ctttgagagt tgaaaggcta aatctggatt ctgtagtaaa tggagggttaa aatgagttaa 240
 tcctagcttg aaatgccatt taggacttat gagaaagggtt 280

<210> 5285
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5285

agcttctaaa agaacaagtg cagctcctac taacttgcac ggcacagtga atgattatgc 60
 aactaatact taatccttca aatgactagg agtgtggctt tgcctcttgg gccttgctgt 120
 ttgcaactcc ttgctgttac tcacattggg ctttgctgct tgtaactctt tgttggtact 180
 catcagttgg ttaattgttt tcgttctgat caagagagtc atgcacatat tttgtttaca 240
 caaaatgcac ttgagataga gtcacacaaa gtttgatatt agagcaatcg aaactcgagt 300
 tcaattcaaa ttacccttgt gttgtaagat ccgcaaaacc cacacttgtg gtatagccaa 360
 tgaaatggtg cagtaccctt ctcatggcag tcattgcana atatatcctg tgatataaaa 420
 aatcagggtt cacaattaaa gtttaaactc tcaaattgtc ccaagaaaaa tgaatctttt 480
 catttggttc tcctcatctt tctgaattga ataaatccaa cattctgaaa tgaaaatgca 540
 ctaaaacttt tttttttttt aaa 563

<210> 5286
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5286

tcttgagcga tcacgtgtcc cttctgaagt atgcctcgca tcctaattta agccagataa 60
cttccatagct tttatatttatt ttaatgatgt tttgttgggt gtagtatgcc acaaatttga 120
ctggagggttc atttgatgaa gctcgaatgc ttcaaaatgt agaagcatgt gaatggttga 180
ccagtgcctt gcatggctt ggttttgcct aatctagatc ctagttatgc aaacatgaga 240
gctttatgtt cctttcttta cttttctctt aaaaatcattc tgggt 284

<210> 5287

<211> 464

<212> DNA

<213> Glycine max

<400> 5287

agcttgacca gtgggtaagg ggagagactg tctgacttca tgtccgactt cggctctcggc 60
gacgatgccg tgatgggcga tgtgcaaacc cgagaccggc agatgttgcg gttgctgctc 120
cccattgtga tctgcgccgt cgacggccat tgtgctagga cgaccgttgc atgattccgt 180
ttccggcaca aatgactcgt tatcccttat accctagtgtg gtgaaagatg agctgtcgag 240
gaagctgtca tcggagttaa gtcctccga tgaccacgc gcgtttctcc ctctccgaca 300
acgatcttgg catccaccgc agcactctc agcaatctgg accatgaact gctcttctcc 360
aatctgcacc ttcaccgtat gttgaattaa aggctcctt gtagtcttaa cgaggaccct 420
tgctctgtcc aatctcctct ttttctccac tgagtcattc caat 464

<210> 5288

<211> 284

<212> DNA

<213> Glycine max

<400> 5288

tgaacttggt attgtcaaatt tcaaaacaaa tatcatttat agaagttgta gacataatct 60
tcttgagaat atactaatta tcagtctatg catgactaag atgctatctc aatacagcct 120
atttcaacat gtgattataa tttgctaattg cagctggcat ttctgatgaa cattgctgca 180
taatctgatg tgtatttatt ttatgctttg cagttcaaag tgtttttgag actaaagtac 240
aaattttctt gttcttttgt gccggtgctg ctgaagcattc tttt 284

<210> 5289
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 5289

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatctt tcagattggg aatgcctcta atagcacctt tgtcaatgat attcttcatg 120
 cctcttaagt gcagatatcc aaatctttga tgccatattc tgacttcacg ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgtc ataggttagca gttgtccttt 240
 gatctgctgc ccttcattag aacttcacac ttctcatttg tctaagca ttctgacttt 300
 gtgaaagta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccagcagt 378

<210> 5290
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5290

tttcgattca ttctatgtac ccgtggtggt ccacattgtg tttcgcgtat tttattctc 60
 gtttcattta ctttttatac ccccttttga cgtgcttaag ccatcttatt taagtcattt 120
 ctcgcttaaa ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
 acttcggtta aaatgaattc cgaccgttcg gttgtgccgt aaccacgttg gaaattaaaa 240
 aaaaaaaga ggtaaaaaat aatataataa taaaaaaca tct 283

<210> 5291
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 5291

agctttacag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
 ttaacctatg gaattaaaaa aaaaaaaact taatggctga gtgtaactga aattgtggca 120
 accaaaagtc accccaaca gccacaagt cagccaccat ttggtctccc aaaaggctga 180

tgcctagggt gccaatggg cccttattac aacttgaact aaacctaact aaagcccttt 240
 tagttgattc acccaaaaaca tatttttgggt cagccaactt tacaaggatt gggccattat 300
 ttagacaaac taaacactct aaaattgaga caaagtgggtg tcatttagtc ctctccatt 360
 taggccatga tacaactcac aacctttgac ttttctcctt gaaacttggg cttgtattca 420
 aatagtattg acaacacttg tt 442

<210> 5292
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 5292

ttgagcaaat tcaaacgaca ataacttatt agtcggatgt ctgattgaga cccgtcatat 60
 atcgagacgc tcgaaattga atgttgatgc tccgagcaaa ttcaaacgac aataactttt 120
 aactcggatg tttgattgag tcccgttaata tatcgagacg ctcggaattg aataccgaag 180
 ctctaagcaa attcaaacaa caataactat ttactcggat gtccgattga gttccagaat 240
 atatcgaaac actcgaaatt gaatgttgaa gctctc 276

<210> 5293
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5293

agcttaacaa aaggcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattgggtc ttgaatgttt gaaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactaaaa 300
 aattgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360
 ctctagaaac attacaagaa catttttatt ggctcatat gaaaaaagat gtgcagaaat 420
 nttgtgaaca ttgcattgta tgtaaaaaag caaagtctaa tgtaaagcct catggatt 478

<210> 5294
 <211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5294

tctatataag ctgaaccatt ttatcaataa acacaagttg agttttattc agaaaattag 60
 agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct gganagagtg 180
 attctttcct tectatcatc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240
 cctctgcccc aaattatctc gtgaccataa ctcccatt 278

<210> 5295
 <211> 927
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5295

ctatccaacc tataacgtat atctcctaga atgactccat ctgcgcgacc cacggcnnaa 60
 ttgaaaccgt cgtttatgcg gcgatcctna aaagacgacc agccagcaag caagcccccc 120
 aaaaaaacct cgaagaagca tcttgaggaa accccttaac gaagccatat aaagaggcca 180
 cgcgattct gtttttggt aaaaagctac ccaacgtttt ggcacacgtn gagaccaact 240
 cgaattccgg cgctggggct ccacaaaaca ccactagtaa gaactgaccg tggggaccca 300
 atgagaagac agcctggggg gggaaccaag ccctctttcc cggaacaca gcccacacga 360
 gcacgcccag ccttgaacca cccaaaacct ttgagaagtg cccacaactt tcctgttttg 420
 gcccacaacc ataggcaaca gacacagctc aatccccacg acccatagcc cacaagcacc 480
 cccacaaaca ggcttgatct acctcaaac cctacacacc taggacacag acaagggcgg 540
 gcccataa aataacacga aactgcccta acaagaagt gaacctaggt cggtttccac 600
 ccagccatga caagcccaat ggccatcaaa agcatcccca acccacaac gtaaccaagg 660
 gggggggggg aaaccactat tggaaaatga aacgacgaac ttttcggaat taaaacaatc 720
 ggaacaaacc aagggttttc ccgcaagca aaacaagccc acgactcgac cggaaggaat 780
 tgaacatatt cgcgcctatc accaacgga gccaaaggta attactcgcc gaattcaaaa 840

cgccggtatt ggacagatag caaagtaagc caatgcgagg taaaccaacg cacacggcag 900
cgactgaacg cggacactca cccaccc 927

<210> 5296
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5296

agatctgtat atactcgatt gtatcataaa nttctcctct taatctataa ttgtatatga 60
tgtcatggta ttgaaaatac tgttatttac atccggaggg ganatttgaa tccattctat 120
tgaggagcct ctatagaata ctnagcttg tgcttgTTTT atttaatatg ccttacgatc 180
atgtagaaac ttatgtgtgt tctactatg aacttgagaa tacaaaagtt gatgcaaata 240
acaaagctga gatttaaaag ggaactaagt atgccttacc taatatcgcc ttttttaact 300
ggctttgagt tggaacacgt cgatgacttt gtctgttcac ctgaacctat taactaatgc 360
ttcacaatTT gtgcttatga gaccttggaC cgatcttatt ggttcaatcc atgggtgtca 420
ttatgctaac gtctcttaac actttttgtg tgatgatact gatagtgata cttcttataa 480
tgttgtgg 488

<210> 5297
<211> 834
<212> DNA
<213> Glycine max

<400> 5297

cgcaaatgaa tcgacccacc cggaccccaa gtcaccgaca gccgcagctt cgagccatca 60
aagggcacac ggaacccccg agccccagaa agcgcataag gacacggggc cctctggaag 120
aaciaaggcc ccaacccacc ccaggccaag cggggaacaa gtaaaaacga aaggcccagg 180
gaggcacaaa tcaatccgaa aggaccaca tggccccaca gaacccggag agaaattcaa 240
aagggcataa cgcataacac agaaggcagg gcccggcgca caaacagtct gcacgaccgg 300
gaaagaacaa cggaagctgc acagacagtc caaaggaaac aacgcgacac agggggaaaa 360
gggcaagacc acaggatagc aagacgctca gaaagcaaca aacgcagtct ccaaaacccc 420

caaagggcag aacggggcca cggagggcca accaaggccc cccccaacc agaggcccg 480
aaggaacaac caagacagcc ccaaaaacaa aagccatggc cgggaccccg agggcacaac 540
caaaccccc aagaaccgga ccccccgaa gggccaacg gaaccccgga acaatcaaaa 600
ggccaaacac tccacccgaa ggcggcaccg ggcccaaaaa gaacgaacc accaaaagaa 660
cacaaggaaa cccgagccgc gaaagcgcgc aacgcacccc gcggagccca aaagagccca 720
caccgcgaag cggcgccgaa aacgaccgac agccccgcga acacaacgcg ccacaggaac 780
ccacggggac gacaagcgca cccaacacg cacgaacgca cagcgaacgc accg 834

<210> 5298
<211> 240
<212> DNA
<213> Glycine max

<400> 5298

tctatgagga ggtcaacttg gagaacgatg ctatctgaag aggccttttca cgacgaagta 60
tctttagaaa aacatctttc aagtcctgtg ataaggggtg aacgctatga gaaccttatc 120
atggttgctg atgaaaatga tctctctgtc tctttatcgt attacttttt tccacagggtg 180
gctcattgtt atttttcata taccggagtg gagcctcact attttctttt ccttgggctt 240

<210> 5299
<211> 912
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5299

gctgatagag tagataatca tctacaaata cagcacagga cattgatgat tcttcaggcc 60
cnncttgggt aaaatccgcc ccccgaaata taaattggac gaaaaaaca gggtttaaaa 120
tagcccaaag cggtagccgc ggggagaggt tggtttattaa caaaaccca caaccaccc 180
aagtcgaagg ataataaggt aaaaccgggg tggccgcata gatgcgcctt gcatcaacta 240
attgggcttg ggccgaccgg ccggataata aaggaggaaa accggaaggg cccagcaac 300
aaaagaaatc ggcaaagcac atggcacacg ggataagcca aacatataat gtcaaataaa 360
agaagacgag catcaaaaac aacaccaca tagaacaggc ccacgattag gcagaaaaat 420
agaggaacgt tcatcagacg cgctattgac gacaataagg actgccgaaa aaatagttag 480

gaacattcat tgatagtttt ccacaaggaa gcccaggaaa gaaggtggga cagaacggta 540
 ttaacaaagg acagtgtcaa ggtgacgaca aaagaacgga cgcagcaa at caaagaaagg 600
 aaacaacgac ggctgagcaa tgcaggacac catcgaaagc acggaacaaa aaaaaagaga 660
 cgcaaccaag aaaaagaaag gaagcacacg aatcaaaact aaggataatt agaataagga 720
 aagaaactca cgccacgccc acaaatgtaa cgcagagtca caagacttgg aaaaacctat 780
 agaatggaaa gagactggat agtagagaga gcgcccgcgt acgcacacca aaggtaagaa 840
 gaatgagtaa actgagcgta tcgtaaacgc acagtgaaga aaaagaatga agctagagca 900
 acgcaaacag cg 912

<210> 5300
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 5300

gccctatagt gagtcgtatt acaattcact ggccgtcggt ttacaacgtc gtgactggga 60
 aaaccctggc gttaccaaac ttaatcgct tgcagcacat ccccttttcg ccagctggcg 120
 taatagcgaa gaagcccgca ccgatcgccc tttccaacag ttgccagcc tgaatggcga 180
 atggcgctg atggcggtatt tttgcttaca catctgtgcg gttttaacct ccgtc 235

<210> 5301
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 5301

ctataccgcc tcattttctt ccccttttgg taacatcaaa aagccaaagt tcgtggcaat 60
 caacacaaga tgatataact aaagttcaca taatcaatta gaagtcaaaa ccaaatataa 120
 tccaatcatc cataagtcaa aaaccaaata taattgatcg aagccgtacc cgaatcaaat 180
 aaacatgaaa atgccgtaac taggaagtga tcctaggctcg tttcccaacg agcagtgaca 240
 agccaaatgt tcataatata cttgcagtaa cagtaacgat gggggggggg gg 292

<210> 5302
 <211> 290

<212> DNA
 <213> Glycine max

 <400> 5302

 tctcggtcc tgctgggaac gcctctagct caacacccgt gcagcctaag gcacccaccc 60
 agaggggaagc tcccccaagtt ccaactccga acgcgactcg accggccggt aattccaaca 120
 cgacaaggaa cttccctcag agaccgttgc cggaattcac cccgctccca atgacgtacg 180
 aagatcttct accatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtct 240
 tcgaaccccc tttcccgaag tggatatgacc ctaatgcaac ttgcaaatac 290

<210> 5303
 <211> 290
 <212> DNA
 <213> Glycine max

 <400> 5303

 agcttatgag aattccaagc tttataagca aaaagtaaaa atctatcatg acaaaaagct 60
 atcaaaaagg aatttttagt ctggtcaata ggtattgtta ttttaattgtc aattaagatt 120
 gtttctaggt aagcataaat ccaagtggtc tggaccattc atcatcaaag aagttatgcc 180
 acatggagca atgatattgg aagacccaac caccaaaagg acatggaccg tgaatggtag 240
 caagaggata atcactgttg tccagctgca agaggcttga accataaaaa 290

<210> 5304
 <211> 289
 <212> DNA
 <213> Glycine max

 <400> 5304

 tctcggtca tactgggaac gcctctagtt caacacccgt gcagcctaag gcacccaccc 60
 agaggggaagc tcccccaagtt ccaactccga acacgactcg accggccagt aattccaaca 120
 cgacaaggaa cttccctccg aggccatttc cggagtccac cccactccca atgacgtacg 180
 aagatctttt gccatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtcc 240
 tcgaaccccc tttcccgaag tggatatgacc ctaacgcgac ctgcaagta 289

<210> 5305
 <211> 450

<212> DNA
<213> Glycine max

<400> 5305

agctttacat cagattttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
ttaacctatt gaattaaaag aacttaatgg ttgagtgtaa ctgaaattgt ggcaaccaaa 120
agtctgatgc ctgggttgcc aattggggccc ttattacaac ttgaactaaa cctaactaaa 180
gccttttttag ttgattaacc caaaacatat ttttggtcag ccaactttac aaggattagg 240
ccattattta gacaaactga acactctaaa attgagacaa agtggtgcca tttagtcctc 300
ctccatttgg gccatgatac aactcacaac cttggacttt tctccttgaa acttgggctt 360
gtattcaaat agtatgggtca acacttggtg agacgctcga aattgaacaa cggatgcccc 420
tcaaaaatta aaatgggtcat aacctttcac 450

<210> 5306
<211> 283
<212> DNA
<213> Glycine max

<400> 5306

tgtaggatta tgggggtaccc atcacatgtg gtactagggtg gcgggtcgggc gatgggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taagcccacc atcccctggt gccacactcc 120
atctgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacag cattcaaacc gcacaagcta 240
tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caa 283

<210> 5307
<211> 434
<212> DNA
<213> Glycine max

<400> 5307

gcaagcttct ttgtggggaa gcataagatc ccagtgaaca tctccaatt tgctgatgaa 60
actagcggtta tggagaagct tctatggata atgtcaaagc tgtgaaggcc attcttagaa 120
gctacgagat ggtttttaggc ttgaaaatta actttgccaa aagccacttt ggagcaattg 180
gacaatctga agaatgggtg tggtctgctg ctggctatct taattgtgcc atgctccaat 240

tcccccttttg ctaccttggg ttgcctatag gcattaatcc gagaagaaag atgggtatggg 300
 agcctatcat aaaaaagttt gaggctaggt tgaacaagtg gaatcaaagg agcatctcta 360
 tggctggaag aatcacccctt atcaatgctg ttttaacagc attacccttg ttttacttgg 420
 ccttttacag ggct 434

<210> 5308
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 5308

gcctcaccat tgtcacgtgt ggatgcatca atcgtctgct gaggctatac cagacatctt 60
 ggcgcacgac ttcaagctta ccataacttg cctgcgctcc ttcttgcttg ccgtatgtaa 120
 cggagtcgtt cataacttgca tgttcgacga cttgcatgct atgtcatact atactgtgcc 180
 actgtgagat agattttacc cctgctctct ttcacatgat cactcacttg attgcgc 237

<210> 5309
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 5309

agcttcatca aatgaaacaa agaaagactt attaagtcac ataattctac taaccaccat 60
 gatgtggttg tttatcaatt ctactcaca tcctactcat ttccatttct aattttgtaa 120
 tcagttatca ttggtcagct gtcattggaa cttccaaaat tcagtgggtca tacaacattt 180
 tagtcaggat gacttttggg agtaccctc accatagtac aatggcaggc ttcaccaac 240
 atggttatgc ctcacatttg tcgggatttt caagtttagca ttatggaaaa cacaaccaca 300
 aatgcaccac cacattccca agaaagaaca agtcagccag caaacctcag taccaatctg 360
 tgtggtcacc caaaaactct gaggactaat tcctcaatga ctttcccat ggggattcgt 420
 cttttat 427

<210> 5310
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5310

ttgcaaaagc cttgttgatt aagggcaaga ggtcaaaaca ccttccaaac catgtcaagg 60
acaaggtctc tgatccaggt ttcaaacca atgctaattg gtcaattgat ttggacacat 120
aggatttaaa cgcaagaagt gaagatgata actcctctgg ttgaggatgt gtaatggcat 180
ggtggcgatt ctccagcttg aagttgaagt aacgttttgc aagtttctct gtcaaaagta 240
ccattagtta ttggaagcta actagaacac agcgatgatg atgc 284

<210> 5311

<211> 439

<212> DNA

<213> Glycine max

<400> 5311

agcttccaca atatccaagc aactcaattc caactatcat gaactaccct aaaccaagaa 60
aatagggcat agcagaaaac tctgcccaaa acacattcac atattacagc tttccttact 120
caaataccct tgtaacgttc ctttcgttcc gattcgttaa ccgttggatc gacttgaaaa 180
ttttactgga ggctcctagt acataagtct acattttgac cgttgggatt cgctagaaaa 240
tgtccagaac ccaatatgta ctacctttcc cataaccagc aatgcacaag catTTTTtctg 300
cacatttaga aaattctgct gcacaaattt gacagctttt tgctgcacaa tttggcagat 360
ttcgaaatcc atcttaccba catccaattt ttctcaaatt ggatcctaca agtcctaaat 420
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<210> 5312

<211> 284

<212> DNA

<213> Glycine max

<400> 5312

tgaactcctt ccatataggg acctagatga gctagtccaa ctttgtataa gagtggagca 60
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caaagcccaa ggaatttttg gggcttcacc ttcaaaaccc aaggaagata agggtaagac 180
cataaagaaa tccaccccta agactagttc ccaagaaagg actagcaaca ttaaattgctt 240
caaattgtctt gggagaggtc acattgtctc ccaatgcccc acaa 284

<210> 5313
 <211> 551
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5313

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agcttattgt taaacaatca ataaatttag ggттаатgaa cctattacat tatanatgaa 60
ggttatgggt gaaaacttga caatgtctcc tattgtggga aagtcttttt gaccgttaga 120
tataatgatt ttaaaattaa cggaagactt aactatgtct cctatcaact tctcaaaaaa 180
aaatgtctct tatcaatttc tcaaaaaaaaa aaaaaagttt cctatcatgc ttataaaaaa 240
atgtctccta ttgggagaaa atcgtttttg accactagat atgttggttt taaagtcaat 300
ggttgacatt ttttttttcc ttttattttt tcatttttct taatctttct taatttacct 360
ctttttcctt tatgtattcc tttttctctt ttgctagat ttctctcaac atacttttta 420
gtaggtaacc caatattact ctaaattgaa tttactctta aaaatatatt ttgagggatc 480
catccaaaaa ttaaattccc tcttagaaaa accaattgaa gaatggaagt ggcatttttc 540
taaatttttt t 551
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<210> 5314
 <211> 500
 <212> DNA
 <213> Glycine max

<400> 5314

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accatttgaa agcacactaa atgacgactg gaaatttgat ttctctgccc atgatgcccg 180
ccagttgggt tgcaccaaca atgcagatat gaccggacgt cttcttgctg ggtcattggc 240
ttttgaaagc cgcaccttc actatttaat tgtgcgtatt ctgcttcac ggtcttccaa 300
ccttgcccag gtttctgagg aagatctaata tatcatgtgg gcccttcata cagggcgta 360
acttgactgg gcacacttag tcagatatcc catgcataag gcattgcgaa taaatgctcc 420
actaccatat cccacacttg tcaactctctt tttccgccat ttcaaaatcc ctcttgatct 480
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gaacccttat gttccaatca

500

<210> 5315
<211> 280
<212> DNA
<213> Glycine max

<400> 5315

tcggaagaaa gtgatgaggt acaagcccta aaggcaaagc ttgaaagagc ccgggtagtc 60
aaagagaagt tcaagtccat agccatcaaa gtctgaagag agtatgatga actaagggac 120
gtcaatatgg ccaccgatga agccttggaa tgagaaacca agaaggcccg aaaggaagaa 180
cacgaccaaa acaagttttg aggggcttta tagggcagca atagtgagct caagctccaa 240
agaggtgaaa ggaatcatca cgggtcaaag gcatgatctt 280

<210> 5316
<211> 353
<212> DNA
<213> Glycine max

<400> 5316

agcttcaccg gatgatgccg atcgaacatt tcctaatcga catcatccaa ttgttattca 60
gggattgaat agaataaaca atggccagtg tcggctccta tatggccccc actgatattc 120
ttcagccgac attgggcaat ttcttttaca aatgggtggc gataatgttc tttttttacg 180
ataaaggaag ttttttgttt tgggtgttgc taaaaaattt acaacttatg tcggctaggt 240
ttttccgtgc gagctcagcc gagggttcgt tccgacggac actggcatgt tgttcttctc 300
atttaagagg gcaagaaaac gttggcccat cccgaccaaa acaaaaaaaaa aaa 353

<210> 5317
<211> 276
<212> DNA
<213> Glycine max

<400> 5317

tccatcaagt tatgaccatt tgaatttctc gagatcttcc gtggttcaat ttcgggcgtc 60
tccatatgtc atgtgcctga atcggacctc cgtaagaaaa tttatgacca tttgaacttc 120
tctagagctt ccgttgttta atttcgagct tctcgatata tgatgtgcct gaatcggaca 180

tccgagtgaa aagttgggac aatttcaatt tctccagagc ttccgttggt caattttgag 240
 cgtctcgata tgtgatgttc ctgaatcgga cctccg 276

<210> 5318
 <211> 894
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5318

naacacggaa aggaactcta cataaccacc agacaagaaa natgaatcat gacgaccgcg 60
 gaccttagag acgacccgca gcatgcaagc cgagcggttat catgcatgct aaggcaacag 120
 agaagccgaa ctactcacg aatgaacgcc aaggggaaat acaagataaa tccccccac 180
 ccgaacaaaa gtgaacactc ggtgaagaca cctcgcaccg taaagaagct gggacgagcc 240
 caaacgggaa aaagaattga accgcaagaa aacacccgat ctgggtggga acaaaaaaaaa 300
 acggggccaa accaaccacc gagagcaagc atctggaata aaaagggcat cagcccaccc 360
 ccacatggaa cacacaaggc gcccaaacag aaaaaacca accgaaaact aatatcaaac 420
 catcaaaaac ccaaagcgcc cccacaagaa cgatccaagc cccgcaaagg cacgggtact 480
 tcacaaccac cccatgcgaa gcaagaggaa cccacatgca gacagaaacc ccaacatcac 540
 ccctaaataa gaacaatgca agccaattcc ggaaaggaca acgaaaccaa aggggggcaa 600
 cacacacggg tccggcccaa caaccaaaaa aggggggcaa acagacagcc agcgtcaggg 660
 gggggcccag caaaaaaaaa ccgaccgcaa aggagcaaac ccgagaggga aaagggaaca 720
 ccaacagcga caggtcgagg ataaaaaaaa tatccctcta acacaaagac aaatcccgtc 780
 ataggaaccg gcgaaaaaaaa cacacttgca aacactcgga gggcagaaga aagaaaaaca 840
 caacacaccc acacactcac ccctccccta tcaggggggg gggacccaaa cacc 894

<210> 5319
 <211> 926
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5319

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ttaccttcca agacctctan aattgacctg acagcccgcc agcttcaaaa aaagaggccc 120
 tccccaatte cttattttca taacggaatt ctctcaatag acccgcgatc ttttatggag 180
 aagggttacce ccccccgcaa acccgaatgc aaatttttat tggggccata gatctaaata 240
 tctgggaagc catagaaatt aggccttatt taccaccccc aataaaaaaa gtttcaataa 300
 atggtcatte ctccagtga agcataactt taaaaaaacc ctcacataaa tgggtctggaa 360
 aagatataaa accagttcaa ttccacttaa aagccaaaaa cattattacc tctgccctgg 420
 gaatggaata atatttcagg gtttccaatt gtaagagtgc tcagaaaatg tgggacacct 480
 cttgattaac ccatgaaaga actgcacatg tttaaagatc tacgataaat gccctaactc 540
 atgagtatga attattttaa atgaatgcac aaggaaatth tcaaaccgcg caaagaaaat 600
 taccctata gtaaattcatt ttacaggctc ttgccaagaa tttcaaatg aagatcccat 660
 atacacaggt gtaaaattht taattgagaa tggccacccc aagttaacgg cttacttga 720
 ccaaaaaatt gtctatatat cctccccac ctttctttgg aacttggagg accccaaaat 780
 ggactcttga gattcctctc acctaagcaa atggcccgcg caaaaaaggg tatgcccttt 840
 aagactcata cctcattcca aaagaaaagt atccggaatg tgactcaaac aagaaaatgt 900
 acctctactt atctcaaaaa ataccg 926

<210> 5320
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 5320

tgggtgatgt tgcgcgact gatgggtacc atgaggtggt tgctgggggt tgaccacgc 60
 ggggtgttgaa aagacagcat gggcatctcc tttcttctt tttgcccctg ttgcccgat 120
 tcttttggca ttcgcgtttg tggaggaaac gtaatccaac tttctcttt tcaatccaac 180
 ctcgattctt ttcccagcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
 cttctcatag tagaactctg gcagagtgtc taccatcat 279

<210> 5321
 <211> 517
 <212> DNA
 <213> Glycine max

<400> 5321

agcttcttct tgtttcttcc cccattttta aacaacattt ttcttaatta cctcattcaa 60
aggtgcttgc aaggtactaa aattcttcac aaatcgtcta tgaaaacttt tcacctcagt 120
cacacttcta ggtgcaggcc actcttggat agccttgacc ttttctttat caacttgaac 180
ccctttggaa cttactacaa aaccaagaaa cacaacatgg tctttgcaaa aaaatacatt 240
tttcaagggt agcatacaat tgttccttcc taagcacaca caacaccgat tttaagtgtg 300
caacatgcaa atcaagggtt gtgctataaa caaggatatc atcaaagttc accaccacaa 360
atttaccaat gaattctctc aagacatggt tcattaatct catgaaaatg cttggagcat 420
tagtcaaact gaaaagcata accaaccatt catataatcc atatttagtt ttgaaagcgg 480
gttttcattt ctctccttct ttaatcctta tttgatt 517

<210> 5322

<211> 286

<212> DNA

<213> Glycine max

<400> 5322

tcccagctat ggagagctaa atcctcagtt ggttcttctt atgggggtact tgatgtaaata 60
actttcatat ctatttaatg atgtttcatg tgttcactgt gttatcagta cttaattcta 120
atgtgccttt gccttgatca cataactgca accgtagtta gggtcactca acattgggaa 180
atgggttgat ccttaaaacc tgataggaca gagctagctt atcgtatctt catgagacat 240
cagggtacga taacctagtg ttgatatgt tatgtcttaa tgcggt 286

<210> 5323

<211> 461

<212> DNA

<213> Glycine max

<400> 5323

gcttaaggac tatgattatt caacatcaca gaggtttgtg actactgggtg gtgatttcgg 60
caaccctgt tcgcaaaccg tggcgaattg gtctcccat tgagaagtat gaggatgctt 120
acaagttggt ctactgtcca agtgtgtgca acgattgcag ttatccatgc ggtgatattg 180
gaatatacca agatgaatat ggcaagcgtc ttgctctaag ttctgaacca taaaaagtga 240

agttccagcg ggcttaatta ttgaattgat aacaaaacta attaaagaat aatgaataag 300
 tgtaatgaac tactttatgc ttttgctgca tatatggtaa ttctcatgtt gagttccttg 360
 ccacggactt gataataaat aaacaagtta ctttctatct ttagtctttc caaaatttct 420
 tgtttctgtt cgtctttgtc attgtttgca tttgggatgc a 461

<210> 5324
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 5324

tttattggat tctacatttc aagagaaaaa aacagctgaa actcttgtga gtaaagggtc 60
 tccaaagaaa accaaaaaca actgaacaag caacaattgc agaaacacaa aggaatattt 120
 gcattcattc atcatcattt catctcta atctctgttc aacaaatcat gaaacaacgt 180
 gtctctgtta gcatcttcag aaacttggca atgttccata aatggataag ataactcgaa 240
 aataaaaagct caaaactttc tgaaacaaat gagaaaaatg gtccattgat t 291

<210> 5325
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 5325

agcttgtttc agaggcgtgg agtttactat cagataaggt caaaagacta gcatataacc 60
 agaacaggag attggaagga tttcacgata atgctcccaa caagaatggg tatataaaac 120
 ttaacaagaa tgcaacttcc agcatgagaa caggaaataa tgatgctcgg gcacatccac 180
 atccgcatat accctccatt cctcctccac atacaaatgc tgggtacctt tggactatct 240
 gtaataagtg caagacacat tatgaatatt tcaggacata tttgaatcaa acccttttat 300
 gtcccaattg taaacaagct tttgtg 326

<210> 5326
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 5326

tggacaatgg tagggcaatc ttgcaaaaat cctagatgaa tttcctataa aaacctacat 60
 gtccaagaaa agaacgtact tcctgcatgg aagcggggta aggaagagaa gtaataacat 120
 atatcttggc cttattgacc tcaatacttc tactagagac caaatgccct aagactatac 180
 cttcatggat cataaaatga cttttttcaa agttaagaac aagattagtc tcaatgcatc 240
 ggtcaagaac tctagagagg ctatccaaac a 271

<210> 5327
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 5327

agcttgagat gaggaagtgt agaaggggtga aacttcctgc ttttattcgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca agagaccttg gggacgtcag gtggggtgct 120
 attgccccaa accaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180
 acctgtgatg tacctaagca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
 cacaaagtaa ggaggcttgt gtggtggctg gctagctgtg aatattgtgt gatatatggg 300
 ttatggcctc tggtaatcga ttaacaaggg tgggtaatcg attacaaagc ttaaaaatga 360
 aaacaggagg ctaagatggg ctctggg 387

<210> 5328
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5328

tcaggctgct caattgctcc aggttgctgc atggaagggc aaaggtctgt atggtgggtca 60
 gcagaggagc ccaaaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120
 tgggttacca agttgatcaa cgcacccagt ttgccttcaa gcttccttagt ttcagatgat 180
 gcaaattggg ttgtagctac ctgtcgcaac ctacccttca gcggggagggc gacgcgtgac 240
 tcgcgggatg cgtgttccac gaaaggaata ctgcgggagt cgc 283

<210> 5329
 <211> 716
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5329

agctntgatg caacatttgg agaggttaat gaaacaacga gatgatgcg tccatgagag 60
gttggatcaa atggagaata gagatcatcc tgaagaagaa aggaggaaaa gaaggaatga 120
tggtgttccct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaagcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc aaaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaagtgat tatgcaagtt gaagtggacg tttccattgg gaaatacaat 360
gataaggtag tttgtgatgt tgttcctatg gaggccagtc acttactttt ggggagacca 420
tggcaatttg ataaaagagc ccatcatgac ggttacacca accagatctc tttcattact 480
ttggtgttgc ataaaaaatg tacacatgta gtcggctagg ttttttgtcc caaccttacc 540
cactttttgt ttctagccaa attggcttgt tccattatth tgcccggaaa aatttaccct 600
ctttgcaaaa aaatattgct ttcaacttat gccttttttt tagggatgaa ctgaaccttt 660
ttcccgcatg gtcggtaaht accccaatta atctttcgcc cccttgccaa tttttt 716

<210> 5330

<211> 280

<212> DNA

<213> Glycine max

<400> 5330

tcaaaaaatt tgaatggtca taacttttca cacgaatggt ccattttggg acataagata 60
tcaagacgct tcaaattgaa caaccgaaac tcctgaaaaa ttccaatggt cataacattt 120
cacacgaatg ttccattggg ggacataact tatgtatagc ctcgaaattg aacaacctta 180
gttctccaga aattcgtaat gtcataacat tttactccga tgttccattc gtgggcctat 240
tatatggaga cgctcgaaat tgaacagcgt gatgttaatt 280

<210> 5331

<211> 444

<212> DNA

<213> Glycine max

<400> 5331

agcttataat atatcgatag gctcgaaatt aaacatcgga aactctcgcg aaattcaaat 60
 gggcataaat tttcacacgg atgtccgacc cggg'gcata atatgtcaag agtctcgaaa 120
 ttgaacaacg gaagctcttg agaaattcaa atgggttataa aatttcacac ggatgaccga 180
 ttcaggcaaa tcacatatcg agacgatcag aattgaacaa cggaagctct tgagaaattc 240
 aaatggtcat aacattttatc tcgaatgtcc aatttaggcg catcacatat agtgatattc 300
 gaaattgaac aacagaagct ctcgagaaat tcaaattggc ataacttttc aactgaagt 360
 ccgattcacg gttataatat atcgatacgc tcgaaattaa acatcggaac ctctcgagaa 420
 attcaaattg tcatgaactt ttca 444

<210> 5332
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5332
 tggccgtata ggaatggcag tcacagcatg ggtatatgcc tctatctcac cctcttcatt 60
 tgccccagtt ttgtcaatcg tctactagg atgatcaaatt ttgcctcttt tcggatccac 120
 ttggatcttt ttgctagcga agaccaaatt tgtaaaactt gaaggtg'gcg agcccacat 180
 cttttcatag tatagtaccg attatgtgtc taccatcacg agtatcgact ccctttccat 240
 tattgggggt accacctgtg ccgccagatc cctccacctt ttgggg 286

<210> 5333
 <211> 608
 <212> DNA
 <213> Glycine max

<400> 5333
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 cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcggcttaaa ttttcttcac ggaaacgatt tttccaagca aattcgaaag 180
 agagagaagt gccaaagggg ctgaaccctt ttctttctca ctctctccc tatttatagc 240
 aaaatagggg aggtgcttgc cgcccagctc gccaggcga gccaaagtgc ttctccaga 300
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cccccatTTTt tactaagTac accccctTct gctTTTTTtTt ggtgattctt tttttgtaaa 420
 gttacggaaa cttaccaatt tcgtaacgac acttgTTTTt tttccggaat ggtaccgaac 480
 cctgcggatt acataatcat tccccTTTTt gacttacgga aggtacggga ccttccttaa 540
 ttatgccacg aagcttccat ttgatttccg gggggcaccg aaattaccggt ttggggcata 600
 atattttt 608

<210> 5334
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5334

tgacatgagg aagcgtggaa gggTgagact tccttctttt attgttgacc acagagtggT 60
 acctgaagat atgtctcggg ggtcaagaaa ccttggggac gtcaagtggg gtgctattgc 120
 ccaaaaccaa gcttgaccag tccctacca acccgggcat attcactcag tgagaacctg 180
 tgatgtacct aaacaagcga gctcctggca gtctacagat taaaaaacta agaccacaaa 240
 gcaagggggc ttgtatggtg gctggccaac tgtgaatctt gtgtga 286

<210> 5335
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 5335

agcttcaggc tgttcaattg cttcagattg ttgcacaaaa gggcaaaggT ctgtgtggTg 60
 gtcgacagag gagcataaac cacagagtct ggcgacaggT gtagattttt tattcatggc 120
 cagttggatt accacgttaa ccaaggcatc tagtttacct tcaagcttct tagtctcgcc 180
 tgatgaagat gaatttTgtg ctacttcatg cactcatcta attgcaataa catcacttct 240
 ggcactaaat tgctgggagT tggaagccat cttctcaatt aaatttttgg cttcagcagg 300
 ggtcatgtct ccaaaggctc caccactggc aacatctatc atacttctct ccatgttgct 360
 cagtccttca taaaaa 376

<210> 5336
 <211> 279

<212> DNA
<213> Glycine max

<400> 5336

tgtctcagcg tttatgcgag acagagacca acatgttagc tatcgtcgcc aagtaccaag 60
aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gccaagtgt 120
atgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgccttt accttgaacg ggaggcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaag 279

<210> 5337
<211> 856
<212> DNA
<213> Glycine max

<400> 5337

tttgaattga tatccatctc gaccccgga tccttatagt cgaccctgca gcattcaagc 60
ttcttgtggt accgctcttg gggctcaaaa atacccaaaa caaaatcctc ttattactat 120
ctattttgaa ttctttacct cccgaacgga caacctttaa attggtgctt gttccctct 180
ttgagaatga ggaggatctt cataggactt catccaattg atgtttttcg ccagtttat 240
atatccaccc cccctttttt tttgtgacta acaatgtaca tgttgtctaa cgcaacatct 300
atgatgatga cctcaagggtg atgggtttct cacaccgtgt atccagttta gtttttttgt 360
ggtggacgat gatcctctat tattaccgag acggttcctt atgcggtgcc ccttgaacag 420
ttacgcattt atgtctattc tatggaggct attatactct attatactga aactatgtac 480
ttattttaca aagccattct taccggttcg acccactgat cgatttatag atctgtatgg 540
tcacttaaaa gttgctaagt tcgggttgta tggatctaca gtggccaatt atagatatga 600
tctaattgcca taaagagtgg atctatgttt tgcaaacatt gaaacgtata cttactagac 660
tacgattcct aatttccta catactgctt ccatccact cgcttctgtg atctattgca 720
actctacagt ttccattcca ttgatctgt tcattttatc tgaactgact cggtagcgtt 780
cgatgccact ctacagggtta tacctagata ctagacacta aacgttcgag ctaaaattac 840
ttaccatcaa tatacc 856

<210> 5338
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5338

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 aacaagtttt ccacatccac aaagcgcgca taaaccaccc atcccctgtt gccacactcc 120
 atctgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180
 atcaatcctc tcaagctttc acaacatcca agcaaaacaa cattcaaacc gcacaagcta 240
 tcacagccca gcaaaacaga gcaaaggcag aaaactctgc 280

<210> 5339
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 5339

agcttggtta tctccttctt cactacatca ataatcaccg ggttgagtct tctctgttgc 60
 tggcttactg gtttagctcc atcctctcca tttattcgat gcatacatgt ggatgggcta 120
 ataccacgaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaactaac 180
 aacaacttct cctcttgctc atcagcaagg gaggcagata taatcactgg aaaactcttg 240
 ctatcatcca agtaagcgta ttttaaattt tatggcagag gcttcaattc tgggtgtggtc 300
 aactggacag tggtagaaaag agatggtttc ttagccttta cctcataaag aaaagcagat 360
 gtatgtgtac tttttgaaac tggtagtcc tatctgactc tataaaatca atctcaa 417

<210> 5340
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5340

tgtctcagcg tttatgcgag acggagacca acatgctagc tatcatcgcc aagtaccaag 60
 tagagttagg tctagccacg gccacgagc ataagatcgc ggacgagtat gcccaagtat 120
 acacggaaaa agaggctata agaaagggtga tcgactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgccctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240

aggcccaggc gatggcggac acctactccg cccccgaaaa

280

<210> 5341
<211> 490
<212> DNA
<213> Glycine max

<400> 5341

atataggggg agtaaacgca cattttttatc tatatacaat tgttttggcgc ttgcttgaat 60
cttgatttca ggtattgtat tgtcatcatc aaaaaggggg agattgtaga tgcaattgct 120
tttgatgttt tgatgatgat catgatgata tgatgcaatt gatgaaaatg ggcttttcaa 180
gattaaattc aagacaatac ttcaagatta caagtcacaa catcaagatg atcactagta 240
tattaggaag ggaattccta attgaattag caaaagggtt ggccaagtaa tttaaattaa 300
aaaatgtttt acaaagggtt tactctcttg taatcgatta ccagaagatg taatcgatta 360
ccagtggcca aatatatttt ataacagcta ctaacatttg aattcgaaa tttagactgt 420
gtaatcgatt acacaatttt ggtaatcgat taccagtacg tagtaaactg ttttaatttaa 480
attttaaaag 490

<210> 5342
<211> 572
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5342

gtgaaattaa acggatcttt gttggcggag tattaatttt taaaagatta aattctaatt 60
ttgatctcta gttttataaa tctacaattt tggctctcta tattttaatt gatacatttg 120
attccctgga ttcttaaact tgtgattttg gttgtttagt tatctggcat ccattgacgg 180
ttgaccagaa attgcttgac taaagagttt aaaatatatt aaacagattt aggcgggttt 240
caactgccg aaattgcttc tcacccttcc cccgctaaga caaatcagat cctaattctc 300
aatggcacag acaaaaacaa atccaccaat gaaccaattt tttccgacac tagcaacata 360
attaactcaa aatttgtaag cctctgcgct gccgtagta aatttatatg attttaaatc 420
aattntattt naaatatcaa attcaaataa agtattaaaa taaaaaata tttaaactta 480

ttttaattta tagaaactaa tatgtaataa taacgcgtct tttaattttt tatatattat 540
ccaatcacaa acattataaa gttattaatt tt 572

<210> 5343
<211> 462
<212> DNA
<213> Glycine max

<400> 5343

agcttgctaa cccatggaag ctgataaacc cattcttctt tccttaagac atgatgcata 60
agcctcataa aggtgcttgg tgcattaatg agcccaaaaa gcatcactag ccattcatac 120
aaaccaaact tgggtcttgaa agcggttttc cactcatcac cctttttcat cctgatttgg 180
tgataaccac ttttaagatc aatttttgaa aagggtattgg caccatgcaa ctcatcaaga 240
aatcatcaa gtctaggaat ggggtgccta tactttacag tgatgttggt gatggccctg 300
caatctgtac acattctcca tgtaccatcc tttttgggca ccaacaacac tggcacaaca 360
catgggctta ggctctcttg gacccaaccc ttctccaaca attctttaac ctgagactct 420
atctcttttag tctcccgagg gttagtccta ttggctggcc ta 462

<210> 5344
<211> 373
<212> DNA
<213> Glycine max

<400> 5344

aatcagagca caagagcttc aagtaggtgc tccttaaacc tccattaatt ttttttcttt 60
accttctctt ccattgttgg ttcttcattt ttctccatgt atctcctcac atgtcttggt 120
ctaaatggtg ttaacatgat tctttaaagt ttccacctat taaacttgct atagaagcta 180
gatttgattt tctatggctc aaatttcttg ttcttggtct tgaaccatga attgtgatga 240
gtttaagttc ctttgagttt tgccttgcta ttttttttgt ggctgaaacc taaaccatat 300
aattcttaca aaaatattaa agtagaagaa aacctcaaaa atctatagag acttggtcac 360
ctattgtagt ttt 373

<210> 5345
<211> 536
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5345

agcttgccctg tccgatgtag cagtaatgat ggcccagagtt atgttgggga acggttacga 60
acccggaatg ggtttaagca aagacaacgg cggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagtaggggt taggctataa gccactcag gcggatatga agagaagcac 180
cgcgggaagg aaaagcagtg gccaaagctc gcagttgaga caagaaagtg aaggaagccc 240
gccctgccac ataagcagaa gctttataag cgcagggttg ggagacgaag gtcaagtggg 300
cgcgatatac gaagatgatg ttccgagtac attggatttg gtacgaccat gccctcctga 360
tttccagctg ggaaattggc gagtgganga acgccccanc atttacgcaa cgagcataat 420
gtaaaccttt acggttttta aagctctata gttgggccta cgcttttagaa gttttccttt 480
tgtaaggct ttgtgtcttt tgtttttgaa ttataatata aggatctttc ttcac 536

<210> 5346

<211> 463

<212> DNA

<213> Glycine max

<400> 5346

tcagaccaaa gcaactcaaa atctaggcat ctaaaacccc tcaatttagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatggggta aatttagagt aaactctcac ctacacaag 120
tctataacat caatctaaac tttctcaaac tgattttacg cctcaaattc ccccgaaatca 180
aaatttgact cctcaacacc caattttacc ctaggaatgg ctcttgccct cactttgggc 240
atttgttttt ctctcttgca cagtccaagc tttctcataa gtcctaaatg acatttcaaa 300
ctaggattta ctacttttaa cctccattta cactgaatc cggtttttagc cttccaactc 360
tcaaagcctc actctttttc tactcataac actacattct cacttttctaa ccctagggtta 420
actctaccct tcatccctag caatattcca tcagcaattt cag 463

<210> 5347

<211> 574

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5347

agcttattac tatgccaaagg aggaaaagct tcttgtctat gattatctct ccaatggaag 60
cttgcattgct cttcttcacg gttagttaat taatcactct tcttaattac tctcttaggt 120
accttttgac agaggaaaaa gaaatggaat tgagaacaaa tatttaaatt aaaatggtat 180
atgaaagtat gaaactctac cgaattttan gaaatttcta ctcatttctc tttctttcct 240
cacaaatcaa acggaccctt agtccgtggt tagattcatg ttaaagtatt taaaattatt 300
atgttaaaact accaacttac gttaaacggt tatttggata tgtatgttga aacaaacatt 360
ctgcattctg tgttttgaaa caaaaattgt gcatttggac acaagaataa ataagtgact 420
tttgcattga atagaanaac aaacattgga ttntgcttac cttttttttt tattattaat 480
cgaacctaac atatatttaa aggattttgc gtaccctaaa atcactctta anacctaaat 540
aaagtcattc aaaatcaact ctgatgttga aaca 574

<210> 5348

<211> 464

<212> DNA

<213> Glycine max

<400> 5348

aaggcgaaaa tgcacttgca cgtcaacca acctgaccgg agctatgtag ttggaagaaa 60
tcaatgggtgg agtctgcaca aatggagacg aagaggaaga cctaattgaca gagcatacac 120
caatgaagta caagaacggg tgggactccc tcgtggagta gcatgctgag gaagagaaaa 180
gatataatat gaagtgggta gtttgagaat gtttaaaaat tgagagggtgt atgattcaca 240
tgttttgccc agggttttat tcaggtttct actttatgac atctcccat tatattacaa 300
gtcattgctt tctacacatc tcatgttgtt ttctacagtt tgatcttctt gtctaagtgc 360
cattatgaaa tgtgaagtta cattttggaa tgcactctct tttttcttcc aatttggaaa 420
gtaatataca ttccgaaaag agtgcacgaa gcaaaatggg agtg 464

<210> 5349

<211> 551

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5349

agcttcacaa tatgatattt actngttgac gcatatacat cgtatttttc tttgattggc 60
 aggaagacac ttaatgagct tggagctatt gtctccacgg tgcattccaaa gatgaaattc 120
 cccaccctga ggggggagatt atgactatca aggtagatga aaagcaagca caatagtgtc 180
 acgcacaaag cctaaagatg gcaccttata ctcaccacag ggagcttgct aagcctcacc 240
 ccacaatggt tgaaggtact ccaagtcatg agcatgaagg aaagacctct aatctgagcc 300
 ctaaccatat accaagccat cttagatgat gaattcgata tagatccatg caacaacact 360
 tctaacaaag gcccaaagcc cattgaagag ctctgcaagc tgcagttggg actcaaacc 420
 gggcaatgta catagctcaa gccatgagca cagatgcac gctgataccc tacatcagaa 480
 tgtggacctt ttcgcttggc agccatttgg tatgtcggga atccaccccc acatcatctg 540
 ccacaagctc a 551

<210> 5350
 <211> 552
 <212> DNA
 <213> Glycine max

<400> 5350
 tcatgatgat gattcaagta tgaatcaagt agttttgatg atgaaaaaaaa gcccaaaga 60
 atgatttcaa gattcagtca acaagttcaa gatcaagatt aatttcatgt ttcattgagaa 120
 gaaatcaaga agattcaagt ttcaagagaa gtttgatttc aagattcaag agaaggtgaa 180
 ttcaagattc aagagaagaa atcaagaaga cttcacaagg gaagtattga aaagatgttt 240
 caagaaacaa acatagcaca attttgtttt tcaaaagagt ttttctcaaa attttctaag 300
 ttaccagagt gtttactctc tggtaatcga ttaccagttt cctgtaattg attaccagtg 360
 acaaagtttg atttgaaaag cttttaactg aatttgcaac gttccaattg atttttaaat 420
 ggtgtgatcg attacaatat attggtaatc aattaccagt gtatcattga aattcaaatt 480
 atattgtgaa gagtcacatc ttttcataaa atgctttgtg taatcgatta catgggtatg 540
 gtaatcgatt at 552

<210> 5351
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 5351

gtatgggttg gatgttgaat tccacgtgat cctggtgccg aaatgatggg acagcgggtg 60
aaccaaacgc ggaaggtttt tttggtgagg tagccatgga aaagcagagc gtttggaaatg 120
atttcgtaaa tctcacaatg ctattgggaa atgctggtaa aaacacgaat gccaaagcaga 180
tataaatttg aatgaagaat gtataggggc gtgtgaggca acggtcgaat tcgttttggc 240
ttaatattga acgtgctatt aatgttaagt gattcgtttg ggcacgttca gattgctgta 300
gctgctataa ttcctctagc aaacaaatgc ccagcttgcc cctcagtttt tcaaactgat 360
ttgca 365

<210> 5352

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5352

ntgcggatat ggtcttcgcc ggcgaaatga tcgaagtggg tctaaaaaga ggaaaatctg 60
atcatcttgc tttgataaat gcaaaaaaaaa aaaaaaaaaa aaactggggc aagtgaagag 120
gatgataagg agggagaaac ctatgctgtg actgccattc ttatacgacc aagtttccca 180
ccaacccaac aatgtcatta ctcagccaat aacaaccctt gtcattacc accacccagt 240
catccacaaa ggccatccct aaaatcaacc acaaagccta cctaccgcac ttccaatgac 300
aaacaccacc tttagcataa accaaaacac caaccaagaa atgaattttg cagcgagaaa 360
gccagtagaa ttcaccccaa ttccagtgtc ctatgctgac ttgctcccat atctacttga 420
taattcaatg gtagccataa ccctaac 447

<210> 5353

<211> 501

<212> DNA

<213> Glycine max

<400> 5353

agcttctagt atacgattta tctgaagaaa ttcattttct atcgcacaaac ttccaccacc 60
accaagagca gctaagtact gcaatgcaat tttagctggt tctgttttcc cagatccact 120

ctcgccactg cgaacaaatt tctaacaatg attattaaca agcacaccag tgaatgtatc 180
 ttattactac tatgaaaatc caatgatatt ggtttaggaa catatattaa gtgtcatgca 240
 caaaatgtag ccataaatg cagtaaggag ctgaccttat gataatggac tgatttactt 300
 catctgtaag atacaaaaag aaaaagaaaa cctttataaa tgtctcattc aagtagaatg 360
 caaagattgc aaagaaggga agagaaaggg agaatttcat tcacctctta tcaccttggt 420
 ataaagccga tctgccacag cataaacatg aggactatca ataattctct gcctataagc 480
 tgagacagaa tcatttccat a 501

<210> 5354
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5354

tgcataactt tgaatggggt attggtagag tttatacgtg taaagccatt taatgccata 60
 actaaggaat aaatttttta gagtataata atgattacaa ttactattgt agttgtgggt 120
 gtaacttatg agtaatcaac catttcagca tgatgtctct gtttttcaaa tgccttgatt 180
 ggggaattggt tgaggattga ctttggcata attgggtggt tgtgtgagga gtgattttaa 240
 ggaaatagta ctttctagca acaatggaag catcaccttt ttattangtg cttgataagt 300
 tgatttttga aagttctaatt tgtgctaaac atttgtgata tctagtaatc ctttagaca 360
 ttcatgggtg tcagttggta ttggacatat cagatgtatt cattctacag acttgtttta 420
 tttgcttgat tttgtgaaag tgcccatata ggtaaaaaat gctataatgt ttcaacaggc 480
 actataattg acagta 496

<210> 5355
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 5355

agcttggagt gagagaaaag agaaagcttg gctgagaatg cgtaaaaaca gagaaaagag 60
 gcgcataata tagcaaggga gtaaaaacct tagatttttag gtggattcta ggtttttgag 120
 tgatttttaa gatcctagag gtggaggaga catccccact actttgtatc tgtcaattgc 180

tctcaaatcc ctcttcctga ttgtaaaaag cgcttccttg tgatggaaag ctaaaccat 240
atgttgagga attctgctga gtatttgatg taaactctta tcctatctat ttaaagttgt 300
tttatgtgtt cattgtttct atttgtgctt tattatcgca tgcttgtggc ttgatcactc 360
atttgtatgt gctgctagga gctttagcat tggaaaatgt actgca 406

<210> 5356
<211> 435
<212> DNA
<213> Glycine max

<400> 5356

tgcttctaca attgacatat actttgacaa tgttggggga gacatacttg aggcagccct 60
tcttaacatg agaaggcatg gacgaattgc agtggccaga atgatctcac agtaagatct 120
tgatgagcct caaggcataa agaacttagt gaatatcata tacaagcaga tcaaagtaga 180
agccttcaca gtttatgatt actatcacct ctatcctaaa ttcttggata ctgttttgcc 240
ttacattagg gaagggaaga taacatatgt tgaagacata actgagggtc ttgagaacgg 300
tccaattgca ctagaagcaa tgttccaagg tcgtagtgct ggtaaacaag tcattatact 360
tgctcgtgaa taatttagta caaccttact gtttgatctt tcaattcatt ttgggtgtgt 420
tgtaactctc atttg 435

<210> 5357
<211> 332
<212> DNA
<213> Glycine max

<400> 5357

agcttagcta cacacacacc cctctaataa ctaagctcac ctccttgaga agcttccttg 60
agaagattcc taaagaatca agagcttagc tacacacccc ctataatagc taagctcacc 120
cccatgaaaa aatacatgaa aatacaaaaa atttcctact acaaagacta ctcaaaatgc 180
ctcgaaatac aaggctaaaa ccctataata ctataatggc caaaagacaa ggcccaaccg 240
gaggaaaaac cttttttaat attaacaaag ataagcgggc tcatacttag cccatgggct 300
cgaaatcgac cctgaggctc atgagaaccc ta 332

<210> 5358
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5358

tgtttgaagg atagattctc attatacaaa gcttgcata actagctcag caaaggccaa 60
 ttatgagcgt agagcagttc attgagaagg ttgcctggcc tgnngctcga ccttctttta 120
 tggggcataa tgaaagtttt acagcccaga cacctcaaca gcatgagcca caaccagaaa 180
 atgatcactc atctgaagcc atcatctctg gagctgttga ttgtaaaaaa agaagattag 240
 agacgagatc caatgaggct gctcatcatg aaccaatgcc agcgtcagtt gatgcaccat 300
 ttccaggagt ggattcatct ccacctcagc atgtagtaga ctcttccatt cctgtcttag 360
 agatacatg 369

<210> 5359
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 5359

agctttcact cggagggtccg attcaggcgc ataatatatc gagacgctcg aaattgaaca 60
 atggaagctc ttgagcaatt caaatggtca taacttttca ctctgaggtc ggattcaggc 120
 gcattgtata ttgagaagct cgaaattgaa caatggaacc tcttgagcaa tttaaatggt 180
 cataactttt cactaggagg tccgattcag ggcataata tatcgagacg ctcgaaattg 240
 aacaatggaa cctcttgagc aatttaaagt gtcataactt ttcactcgga ggtccgatcc 300
 aggcgcataa tatatcgaga cactcgaaat tgacaatgga agctcttgac aattcaaagt 360
 tcataacttt tcaactctgag gtccgattta g 391

<210> 5360
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 5360

ctgatggtgt cgagaagaaa tcacatgttt ggcatcatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgccaaa gaaaaatcaa acaagggttg ttcaaagtat 120
aagcatttgc ttcaagaata attcaagagt gcttcaacaa acaaagcctt gtttcaagat 180
tcactaaaga ccaagccttg ccttaaaaca aagtgtttc aagacatgca aagctctggt 240
aatcaattac cacgaagtgt aatcgattac cacaagacat ggttgagaaa tagctgttga 300
aaaaggtttt gaatttgaat tttcaacatg taatcgatta ccatatgtct gtaatcgatt 360
accagcaacg aaactttgga aattcaaatt ccaaagtcac aacccttcaa attataactg 420
tgtaatcgat tacacaaaca ttgtaattga ttaccagtgg aaagttttca 470

<210> 5361
<211> 513
<212> DNA
<213> Glycine max

<400> 5361

agcttgtgct aaaggaagta agacatgtgt ttgagatgcg tttaaacctt acctcaacat 60
gaaagctaga tgaagatggg atgataaacc agttcgatac agatagatgg aagcttacta 120
gaggaagcat ggttgttgct taaggtaaga aggaaggctc attatacatc atgcagggaa 180
agatatgcaa agggaagaca aatgttgctc aagatgcaac caaagaattg tggcacaaga 240
tattgggtca cttgagttag aaaggtttga agtttctagc aaatgatcac tttccaaaca 300
taaagaggca accacttgaa tccttgaaga ttgtcttgca ggtaaataat gcagagtgtc 360
tttccaaaga ttgaatgaac tagaaggaga aagcaaacc ttgatcttgt ccacttagat 420
atttgcctcaa tgtctaaaaa gtcccttggt ggtgcccaat accttggtac cttctttaat 480
gattactcca acaagctgtg ggtggattcg ttg 513

<210> 5362
<211> 389
<212> DNA
<213> Glycine max

<400> 5362

tcaacatcag accacttcca ggtgctgga actacttcac atggatttga tggggcctat 60
gcaagttgaa agccttgag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
atttacctgg gtaaacttta tcagagagaa atcagaaacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag agaaagactg tgtcatcaag agaatcagga gtgaccatgg 240
cagagaatth gaaaacagca ggttcactga attctgcaca tctgaaggca tcaatcatga 300
gttctctgca gccattacac cacaacagaa tgggatagtt gagaggaaaa acaggacctt 360
gcaagagggt gctcgggtca tgcttcatg 389

<210> 5363
<211> 533
<212> DNA
<213> Glycine max

<400> 5363

aaccgctga gtttttttgt ttcacccaaa ctctatgagg agggccagaa actactgtgt 60
aagatthttct ttttttctt gttagtgtt ttgatttgtg aatctcactt aaatthtgag 120
cttaatatgt ggcattgcatt gtgaatcaca tttttaatct ttatcagcta agttgagttg 180
tttatgtatg ttgtaaggcc tttcaaggag aaacgaagca atgagcttaa attctaatag 240
ctcaaaatca catataatth tcacatttgt cattgagtct ttgtgtaagg tactgtcaaa 300
ttttgtaatt ctacctaaca ttaccagcag ttgtgtatgg aaattgttgt tttcctaaga 360
ttcaagccac gggttatatth tctctgttag ttctattgct aaacatgatt tttthaaact 420
gatgttgca ggaaccaca aagggtttca atatctcaaa cactagcaga atcaccctta 480
ttgatcctgc tggattggat aacgatgaaa ttgatgatgg agagccaatg tct 533

<210> 5364
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5364

tgtggtggtc attctctacg ccattttcat cgctgccgca tgtaaaatga cgggtcaaggc 60
tcttaagaca gcaatgtaaa gatgtagggt atgataatag caaggcaaat tgaaatagaa 120
tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180
ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgatttatt 240
ctatgcatta taaggtaaath aaatatagaa tcaaggtaac atangaaagt aaatatatac 300
acagcatatt tgcaatcatg tagaagatat ttcctaatac tccccctcaa gttggtgagt 360

gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctttt tccaaagctt 420
 ttgtaaacac atctgctagc tagaattttg ttggcacata agaaaagatt gatcatccca 480
 gcttgtagtt ttttcccgac tatatgacaa tcatttccat atgtt 525

<210> 5365
 <211> 584
 <212> DNA
 <213> Glycine max

<400> 5365

agcttgaggg gctacaaaat cgtgcctcac cgtgaactcc ttcattttga atgaggcgat 60
 gaagttttgg gtgaagaaaa ctcaccctcc cctcttttta acctatctcg tgcagagggt 120
 gctcgcccag gcgagctagc tatgcatttc ttttttgcaa gacttctctg aaaaatttta 180
 actattctac gggcttgccg ttgtttatit taaatcccaa gattaagaat aaactagaca 240
 tattcaacta tgactttaga caaatggaca aacaagcaga aacttaaaag atactaggca 300
 gcctcctagt agtgcttctt taacatcttg agccggacgc aggataatga tttattgatc 360
 atgggcctag catctgctcg taccctccc taagtcttct aaaaacagga aatggaacca 420
 cgagtaaaa catgactacg ctaccactta ccttggttta tcttttctt gaattccgcg 480
 ttgtattgac catcattcga aacaaatctt ctcttgctgt tcgatgcata ggatgataaa 540
 tatgcatatg catgcatgct catgatcagg cagttcaagt gtaa 584

<210> 5366
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 5366

aaataatttt tttaatttcc atgatatagg gtgttttgcc ttttcttctt tatctttttt 60
 attttcattt ttgtctccct aaaaaataa ttgattcta atcttggtat tagttttggt 120
 cgtgaaatct aatagaaaaa attacaagga ccacaataga aataaaaaaa attataagaa 180
 caaaaaatta agtgaagaac caaatgaaa aaaccttata tatatatata tatatatata 240
 tatatatata tatattaaga ataacaacct aaacaactat tttgggtaaa aaaaattatg 300

tttaaattgt gaatcttgag gcaaaaaaat taatcaattc attttttttt tggaaatttt 360
agattntgaa tagagaagat ataaaaatat atatatttac ttaattgtta aataacaaga 420
tataattaac ttaataaaaa gtttgagact taattgcaat tttagtcctt taaatattga 480
gattatacaa attatggctc cttaagtttc aattatgcga attaaanctt ctaactttat 540
ttttatttac aat 553

<210> 5367
<211> 478
<212> DNA
<213> Glycine max

<400> 5367

agcttctttt ggaccttgaa cagacaacta actcctcttt caaaaccatg ctatgtgctc 60
gcgactgggc cctctcttcc cttcgcagct tgagttcatt gttgctaccc cacagagctc 120
cgcgaaattt gttccggcca tactcttctt tgcaagctct cttggcctct tgttcaaggg 180
ctctcgcggt agttgcattc tcttcccgta atccggcaca ctcttccgg atgtgtgtag 240
cggccaactt gaacttctcc ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aactctcttc gctgacgact ttttaacttg 360
cgagccaatc taaacctcgt acatgaactt tcagccattc atggtaacca ccaatgatgc 420
cattacgaat gcccctaagt tcttgatctt tccttaacgg ggtttcccat gccttatg 478

<210> 5368
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5368

aagttgatgc taagaccctc aatgcattct tggagacccc ggtgggttctg gagccaggga 60
agcgatactc agcctactct aggttctgcc gcatgcaccc aaaccttcaa gagctcgccg 120
ccagaatatg tatcccaagg cacagttttg ttctgaatgc tgaaagagcg cccttgaagc 180
tcctaaggaa ggatctcact acattggcgc agacctggag catcttgtnc tactccaacc 240
tcgccccac ctctcatacg tctgctctta atatggacag ggcgagggtta gtgtatggat 300
tggtgatgaa gatggacatg aacttgggct ccatcatctc aggccagatt tctcagatga 360

cccattccaa ctctccagg cttgacttcc ctgcactgat taccgcctta tgcacgaca 420
gaggagtagt cccagattca ttgactttcg agtccttgag ccctactatt aatttg 476

<210> 5369
<211> 550
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5369

agcttatatc aaaaaattga ggccaaaaag gttattgaat gaaaaacatc aactaattag 60
acagcaaagg ctacattacc aaaactggga gcagcaggac aaacaattgt agaagcaaag 120
cttcatgatg aatcaagatt gattcaaaga tgttttgata ataacaaga tgatgacaaa 180
ggtgatgaca aaaagctcaa aggtcaatca aagaataagt tcaagatggt caagatagaa 240
tcaagaacac ttcaagattc aagaggaaag ttgaagaaca cttcaagatt caaggatcaa 300
gcttccaaga atcaagactc aagattcaag aatcaagaga agacttaatc aagataagta 360
tgaaaagggt ttttcaaaaa ctgagtagca catggatatt tctcacaaca tgtntaccaa 420
agatttttta ctctctggta atcgattacc agtagcaaaa tggatttgaa aaagttttca 480
actgaattta aaacgttcca attgatttca aaaactgtaa tcgattacaa tatttttggt 540
atcgattact 550

<210> 5370
<211> 624
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5370

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gaattagtg aacttagtg ttggtcaaga attagacata gtcttggttg ttgagacgaa 120
ccaatatata tttcttatgt cttattcttt cttctattat ttgaactgac ttanggttta 180
aatttgatct ttgcttttga aaaacttttg ttgttttatg aagatttgaa actatcgttt 240
aatgtgtcct acgaaaattt gatatctggt ttcttatatt ttacttcac agatgatatc 300
tttggtgtat tcgaaaaagg ttttaagttt agtaaaaaatc aaaattcaac ccccttggtga 360

tatatgcctt taaaaattct aagtgggcga tcttgtatat agaatgagaa gagaagcaag 420
gaagcatcat gttgatggaa aactttctct gaactagaaa gaacccttca taaatactgt 480
aacacaacaa aatggggcctt cccaccttga acaactttat tgaatgggtat ttttaggact 540
tgaatgcaac acatttgaag ccctcttcat taaaaataag ggggggaccc ctttttcct 600
tcaacctttt ttccaaataa aaaa 624

<210> 5371
<211> 861
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5371

acaaacaaac gcacgcataa cgaacgcacc tccgcgacaa tatgatgtat ccannnnncn 60
nnacccccn agggatgatg catcatgncg caccgggaac nnanaagcca ccgcaggaag 120
caaccaaccc ccgacgagag ggaagattct tttaccaccc cccaaggag gaaaaggcag 180
ttttgaaaag gcttccgacc cgctcaaca gcagaatatg gacaaaaaag agggggaaac 240
cctcaaaaaa catacaccca cacagagggg ttcacgcggc ccaaaggccc tcaaccag 300
gtgagaaaga gaagaacacc acgatggaga gaccaccctg ccccgact actattagaa 360
acaaaatnga tataatcacc aacaaccta ccatcaggt ggcagacggg gaaaaaata 420
acntcgcaa tcaaaaacaa aaaataataa tctcccccc ccaacacaa actcccaaag 480
aaaaacggca ccaggggcca aaaagaagga gggaaagccc cataaccgac agaccaacca 540
cccgggggga acacacggaa aaaacactgg ggcgcccac gcgcccacaa aaaccccacc 600
tccacagggg agcaggggaa agcccaacgc aaacaaccg ccgaccgaaa atgcccccc 660
aaaggaagca ctcaaaacc aaacggcagg cgcacccaaa aggggtaaca ccacaaaag 720
aaaagaagcc ccccgagcag acccgga acaaccactc cctccgaagg agaaaaagag 780
ctaaccccc acatcgcgcc ggaacagacg gggacaacaa tcagagaggg cctacgacca 840
ccctaccgca caacagacac g 861

<210> 5372
<211> 914
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5372

acgcacttcc atctgattct actccatgta tccgtacatc aaatcgtact cccccccct 60
cccaccccc ggantttgtg catcctttcg gccttatata ctaacttggc attcatatcc 120
cgatgaggat gatccataag ttctcaagac tggactaata acattgctgg ccaaatttca 180
tgggctttgc agctgaaaaa ccctcataag ccattcttaa cggagttccc atattgttct 240
tgttccaccc ttgaagaccc cttgatggt ccacggaaga agaataatat tttctaacaa 300
gcctttatac tcaatttctc tggaacggag atggcaaaaa caatggggtg gtactacccc 360
tgtacaatcc aagcttcctt gatgaactaa cgaatgattt cacagatgtt ttcgatgata 420
acacaacggg attaacaaaa agcctccaaa ggcaatttct tgataattca agaaagagtc 480
cccaatgtta aaaaagctcc tgattgaatt aagaatcaag aatcaaggtc cagccttccc 540
gattcatgat ccataattct gaactctgaa ttttagaatc aaagaagaac ttttctgata 600
ctatcaaaag gatttttcca aattgattac cccatggttt ctttctaaac ttttttccc 660
aaaaattttt ttctcctgct atccatttcc ccatttatgt ttttctttc ccaattttca 720
aaaatgtttc taaaaccctt cttaccgcta taacaccctt tccatatgta ttacaaaaag 780
tgttatgtaa ttaccacatt tgggtgaaac aatccctgc gcttgccacc tcttacctta 840
tctttacaag gtcaagaaca tatccttttc ataaaaacct cttcatacgt atcaccgcaa 900
tttcaactgaa tccg 914

<210> 5373

<211> 865

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5373

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tgaagcttaa tggaggcttg ggggccacta ttggttggaac tggcccaaaa gtattgctga 120
aatcctaatt tttttatatt taatttttaa ccttaaagac tctgggatga attggagaac 180
ttttccgtct tggggtggtg aaattctttg ctttggatgg cttaaacttg gaaaagaaat 240

ccacactttt cttanaaatt ttacacgctt ggaaagaaat caagaccacc tattttatttt 300
gatcaaattt tctttgaann aaaacctttt tccattgccc cttgtagaat tgtttctttc 360
cagcaacgaa cttatttttag ggaattttca ggctagggtc cctaaacatt aatttggttc 420
ccttgattga gttcctaaag ttttgaaacc gccataaatt gtcaacatat caaaaataga 480
aattatggcg aacataaaat taatccaatg acatggattt ggaggggggg gggggnncc 540
ccccatttat cttctcccc tactcatccc tttccgcccc ccaaactctt cagttcaccc 600
acctgtttac tctctaacct tcatcctccc acatcccctc ttctctcttt ttacaccccc 660
tcagttattc cccactctat cctctctct tttctctcac tccttattct ctctaccctc 720
cgcccaactt gttggcatcc cccctctata cttctctccc ctttcaactt cttccactct 780
ccctcattta tttttgtcct ctctataaatt ccttcccctt cccccatcc tttctaatat 840
ccctcctcct atccccctt ctccg 865

<210> 5374
<211> 457
<212> DNA
<213> Glycine max

<400> 5374

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cattttgtct ttacgcacac ctatgttttc attcacccac ttacatttga aaagaggtag 120
tctaaattca ccgtaatcaa cctcctaaat ctcttcaata acaccatagt aaggcatgca 180
agcttcaatg ggattattgt tagcagcact gcaaaagtga ttcgattgac catcaacact 240
gaccccgcta ttctgcacac tacttttatc atcctgggac tttgtgtaga aagaacattg 300
attgatatca tatcccttcc aagtgggaac attcatattt ggaccacag ctagcaatct 360
taatgtgttt gaagcactgt catcggtgaa gattgtttgt ccaaaccaag gtatgaaacg 420
tatattgtgc tcttgcaaca acctcatcat gttcatt 457

<210> 5375
<211> 385
<212> DNA
<213> Glycine max

<400> 5375

ttcctcgagc acgttcatca tccacactgc ttgacaagca ccaagtgatg ctgccacata 60
ctcaacttca gaggtagaca aggccaccac atcctgcttc cttgaactcc aagccactgg 120
tgcacatag tacatgaaca aataccctcc agtactcttc ttctgttctg gatctctttt 180
ccaatcagaa tttgtgtaac caaacagatc tgattcatat gattcaactt caaaagggaa 240
caacacacca ttgtcaattg tccctttaac aaacctaatg attcttttgg ctgcttgcat 300
gtgtgaaagt ctaggttttt gcatgaacct gctaataaac ttacttgcaa gcagatatca 360
tgtatgctgc tgcataagta cctca 385

<210> 5376
<211> 311
<212> DNA
<213> Glycine max

<400> 5376

taaaatatta tttagttcta ctgggcctac aggattacat gtgaagaaaa ttgcagtga 60
accctttttc ggccaaagga acttcacatg atcacggggg tgccaaccct tttagaagga 120
aaataaaaga gtccatgata gatgaagatg atgaggaggt ttcaagcttt aagctgtcat 180
tttactgggt accaaataga gatatcaggc tgtttctgaa gagcatccat ccctactact 240
cctccttgca tatcctcctt gaaatcaaag gatgccaaat cacaagggga accaaacatc 300
aatggaagt t 311

<210> 5377
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5377

agcttctaaa aaaagatfff taaaggtgca aactattgca acccgtaaca atttggaat 60
atcccaaaaa tgtgcttaaa atgacatfff tagttttcaa ttatcatgaa ataaatactc 120
aaggtaggga gatcaaaaac ccaactffff tcaaacatta aaacaacatt taaggcactt 180
aaagtcacca aagtcctat ttttcgtagc aaccgaaac tatgataaaa tagaaccgaa 240
aatggcttat aatgctataa acattatgaa ttttaattcca aatgggtfff aaatccaaat 300
ccaacatacc ttgaatttag ccctatattt ttaaccatag ggaatccatt ttttagataa 360

aaaatactaa attntgtacc aaacactgtc agtacgtcga agtagagcca aacttactta 420
 aaatgcttca aaacattaag aatttgtttc ccaatgattc ccanatccaa attaaataaa 480
 ttatacatgt aacataattc tatattttga cccaatgaa tc 522

<210> 5378
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 5378

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 tgggctgcaa ataggcaaag cttatggaat gaattcaacg atccaaccaa aacaagagat 120
 gaaatcataa aaaaatgtgt ggataggcat agataaagat caatgggctc gttttgttaa 180
 ttatagtcgt aaaccatcaa cattggtaca attagactgt ttttaattatt gaattgtttt 240
 tatagctcat tatatgatta ctattacaag ttgtaaactt gaaattgctt tgcatatagg 300
 aactttgtaa gagaaataaa gaaatttgaa gcaagcaagt tattccacac actgggtggat 360
 ccaaagctaa tcctataaga agaaatgagt tggatgatgac actaaatgtt aactttacta 420
 attaaagagg ttcaaagttt acttactctt tatttatattt accctgttaa aaaatgg 477

<210> 5379
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 5379

agcttcccgat atccgtactt ggaaggatct gattaccgcc ttcctaaggc agtatcagta 60
 caattctgat atggctccgg accgtactca actgcaaaat atgttcaaaa aagagggtga 120
 aacctttaaa gaatatgctc accgatggag ggatttggcg gcacaagtag ctctcccat 180
 ggttgagaga gagatgatca ccatgatggt agacactctg ccagtgttct actatgaaaa 240
 gctagtgggt tacatgccgt ccagctttgc ggatctggtg tttgccgggg aaagaatcga 300
 cgtgggattg aagagaggaa agtttgattc gtttctcca caaacgtgaa cgccaagaga 360
 atcggggcaa cacgggcaa aacgaaggaa agagatgccc atgccgtctc tttaacaccc 420
 gcatgggtca aacccctca aacacctcat ggtgcccac aatacgcgcc aaatcaccca 480

accttttttg ttatgttgga atgcc

505

<210> 5380
<211> 379
<212> DNA
<213> Glycine max

<400> 5380

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aaagttctac tgaattttgt agacatttgg accaaaatta taaaaaaaga accaagcgat 120
ttggattaaa gaaaaaaatt agaaaaatca cacaagttgg atgaaaaatc agtgtccagc 180
aaaataaaaag tgaaaaggaa gtgtgcttgt tgttttagct caaaattggt tctataatag 240
gtgcctactt tataccactc ctagttctga aacttcaatt gaaaataatt atgaaaacac 300
gtgccaaaaa tagaggtttc ttgagtcttt ttttcgattt tcttttttag attttctact 360
ctactctata gcctttata 379

<210> 5381
<211> 427
<212> DNA
<213> Glycine max

<400> 5381

agcttgctag cggatttttg catttccaat tcatggtaga aatccagcag ttaaaaggct 60
atttttccat cttccaagtc aacaaccaat ctacttcaat gatgatgcaa atgttcaaga 120
tctgctctct aaaccaagtg tcagtcaatt atgtttactt catggatgga agcaaacaaa 180
gtttaccttg aggctagtga tctcacttat agccaattcg taactagatt tttttatgtg 240
aaaaaaaagt tgttgacat gtgtcgcaac cttcccttcg gagggagggc gaccctgac 300
tcgctggtgc atcttcccag aaaggaatat gcgcggagtc cccaccaacg tttatttgag 360
gaaaacctca gaaaaccaa aaaagacgtg gtctaacaac ttttaagtga aagttccggg 420
agttggt 427

<210> 5382
<211> 376
<212> DNA
<213> Glycine max

<400> 5382

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gtgcaataag ttggaaaagt tccaagcaag ctatggtagc agattcaact actgaagcag 120
aatatatagc gacaagtga cccgctaaag aagctgatag gataaaaatg ttcatagttg 180
aacttgggtgt gggttacttca atagaagaga cgggcccatt aacgtgacgac aataatgggg 240
ctattgctca agcaaaggaa ccaagatcac accaaaagtt caaacatatt gtgcgaaggg 300
atcacttgat tagagagata atacaacgag gtgacgttaa gattgaaaat gtttatggaa 360
aggagaatgc aacaga 376

<210> 5383

<211> 219

<212> DNA

<213> Glycine max

<400> 5383

agctttaaca aatgtcttca cgaataatca ttacacagga gaaaactaag cccactaccc 60
ctcatatcta ccaaaacccc ataccacga atatgaagag ggaaagaagt ccacccaac 120
ctgaaatttc gaaggcccac tcgtaaccac gcacttcacg actccaaaaa tgctctcctt 180
tcacgatttg gggcataaat ggtggccaaa ggttgaaac 219

<210> 5384

<211> 464

<212> DNA

<213> Glycine max

<400> 5384

acactataca atacctcagc ttcactgaat agcttggtgtt attgaagaat attcttcttg 60
aatagaacac gttacccaaa aatcagtagc aggcaaataa gatattatgt cttgcacata 120
tggagtacca aaaaatacat gcatgcccta ataattacat tttgtataga aatcagtttg 180
tcgaaacaca caaatacccc acaagtgggt atcacagtac aaattgaagg ataacacatg 240
tgggtgatgat gcaacgaaaa acaacaacta tttatcaaag gtgtgcta atctttcaat 300
tattccaagg ttgcagtgat tgttttctaa tggacatgat accaaaaaac ttaacatggc 360
atgcagctgg tagaaaaagt gatggattgc tccaacatcc ccgtgattat ccctaataka 420

agacaattga tcatttgtat cctaaaattg cataggacct atga

464

<210> 5385
<211> 98
<212> DNA
<213> Glycine max

<400> 5385

ttacccatat cgttttaggg tttttatgat gatgctcgcg atgtttatgt gctggcatcg 60

attatggtca actggccggt atgaatggtc cagtgggc 98

<210> 5386
<211> 341
<212> DNA
<213> Glycine max

<400> 5386

tgaaggcgtg tcaccacca tcttctcata gtttaacacc gataacatgt ctactatgat 60

tgttatcatc tccctcttca tcattggggg cgttacttga gctgccagat gccttcacct 120

ttgggcatat tctttgaaag attcatgctc ctttttacac atgttctgta gctgcattct 180

atcaggaacc atattagaat tgtactgatg ctacctaatg aaagaaacca ttaggtcctt 240

ccaagaatgg actctggaag gttccagatt actatactat gtgacagctg cccagtaag 300

actttcctag tgtcataccc taaattcgtc tggggatgat c 341

<210> 5387
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5387

agcttgggca tttttctttt tctctgttat acaaatatat gtcgngtatt gagaaacaaa 60

attttactct ccattcgacg cacatgtggg tttttagttg ttgattttca catttaaatt 120

tgagaataac aaatgtttga ataaaatgag gtcgacatga gtttttacat acattttaat 180

accctgctga tctcactttt ggaaacaaca aaataaaagc tttgtatttt aattttttgg 240

aacttggtgtg ggtcagatgc tttcc 265

<210> 5388
 <211> 530
 <212> DNA
 <213> Glycine max

<400> 5388

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catttgtttg ttttgcaccc agttctaaag caagctaaaa atgtccaagt gccaaataac  120
ctggtaggta aacaaaatgt gacattaatt cgtacttttg cttcattgga aatagactta  180
tgtttgattt tacaagagg gatggaagtg tccattttgt agtttttttt atgacattgt  240
ggcacaggac aacaatgggg cagcccaaca taatggacct ataccactta atagtccact  300
tcaagtcaat ggaccaatag tatatgatgg agcatgtaaa tgtattgcgt ctattgaagt  360
taatgtgtaa cattcctgct tctaggatca atgactaact tcacaaaaca caaaaaagct  420
ttcaaacggg tttagtcctt attcacggtt ttctggggaa actttcccaa aaggcacccc  480
tttcccttaa ctaacctaat accaaaatcc cttaactatt aagatcttaa               530

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<210> 5389
 <211> 550
 <212> DNA
 <213> Glycine max

<400> 5389

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agcttgtcag cataagcatt gccttcatgg tagatatgta aaattctaaa actaaacttt   60
ttagttggat ctatacaatt cacctagcag ttgtaaaaag tccagggggc tgaaaaagga  120
tgattatata atgcacaata ttgaaaatat tgttgatga ttgtgcta cctaattgta  180
ttgagaatat tgctacatga ttgtgctgat ctaattgat tctatttgta ttaattctga  240
ttgtatgtat taattcttat tggattttta ttttattttg tatcttgatc tcttgattat  300
tgggatcact tatttttagg atagatagtt gtatcagata tgtcaggaaa agctataaga  360
gaaatcttag ttaggtggtt ggatgacctt gtatatatat ctatcaattg tttttaatag  420
aggcagaaca acaaggagga ggtgaagcaa aagctaagga gaatgaaact cgagatgtca  480
ttgaagatca aggaggaggt gaaaaagcag ttcgacgtcg atttcttggc ggtggcctga  540
taccgccgaat                                     550

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<210> 5390
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 5390

tccatcaagt ttgaatcctt gtttgttcgg attccccata taattcactt cctatgcagc 60
 atcatcaagg ggtatacaac aactagattc atatgtctct ccacatatac tacaacctcc 120
 aacctgtatt actactgaat ggaaggttg aactacttgc agttgggttg gcagcttact 180
 aagtgtctct gtcaatgatt ccagttgttt agctaacaac ttgttcagtg ccaacagtg 240
 atcttgtgaa gaaatctcta gtaagcttct ctttgtgggt acatgagttc tatcacacag 300
 aatagcatga tcactagtag ccatattctc aataagttcc atttcttctt caggagtctt 360
 taatttaatt tttcctcaag aagaagcatc caataactgc ttggactgca gtctcaaacc 420
 atcaatgaaa atgttcagct gaatcggttt gg 452

<210> 5391
 <211> 527
 <212> DNA
 <213> Glycine max

<400> 5391

agcttggata atcttcacct tacaattcag ttttctgggg ttgaattagg tctaagcct 60
 aaattctaac agtaagttaa caaggcttgc cagacttcca acaaaatttg tccatcctct 120
 acaactttca agaacacatt ttctctcaaa atatcaagct gacacatgcc acattgttat 180
 tcaaagtaga tttttcattc acaggaattt caggcacatt attgcataaa aagttataga 240
 caccttgatc agttaataaa gacattagaa gctgctttac tgccaaaatt aaacgaaaga 300
 ttttcttttt tattgggttg aattacagat agtttaacag cttgtggata atatcaacca 360
 cagggtttctt tttcctgtca tcatggcata gcaaaggcca agtatgagaa ctgaaatatg 420
 gaaaacatgt tggtaatcaa taccttaata cattgatgta ttccgaagca attccttccc 480
 acattatttg ttggaaaaag aggatcatct atgtgaattg gatcaat 527

<210> 5392
 <211> 515
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5392

tccttaacca gaacactcta agtggatcca agtagagcca agttcataag agtgtctata 60
aacaactttc tatgaggacc ctcgatagaa ggcattctga aagggtgtagt attcatcccc 120
ttatgagaaa tgtgagtgat ggaagcaatt caagtacaaa ggtgataatg agttgaaata 180
tgtaattgat gttgtaattg attatagaaa tattaattta attcaaagga ttaggttctt 240
caatgaaatg gatgattaat aaattaattc attaaggatt catatgaaaa tgattacttt 300
tcatatcaat caatcacaaa cagatgatca atgacatgtt catgatcata attaactgca 360
caaatctcga ccttttttat tgattatgta tctcaaccct ttaaaatatt ttatgttaaa 420
tanagcatatc agcatatata aaattgaatc gaaaaaagac tacattntat gcaattcatt 480
attgaactac tgtggcatct ataaaattac acttc 515

<210> 5393

<211> 523

<212> DNA

<213> Glycine max

<400> 5393

agcttgccca gagaaggagt ccacagagga aatgcttacc acctcaaaag actggaaagc 60
ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agctcaccaa 120
gatgtcttcc tcgcctgaca cgatgaccaa atgccctcc actacgaatt tcaacttttg 180
gtggagtgtg gagggcacia ctcccattga gtggatccac ggacgcccc aacagacagct 240
gtagggggggg ttaatatcca ttatttgga ggtgacttga cagggtgtgag ggccattttg 300
tactgggaga tcgatctctc ccctaacctc tcggcgagtg ccgtcgaagg cacgaaccac 360
cattgaactc ggctttaagt gggaagcatt gaatggtaat ttctccaaag tgctcttttg 420
catcacgttt aaactggaac cattatcgat gagcactttg gctacgatat ggtccatata 480
cttgactgat accgtgaaag cctttgtatt gccctctccc cct 523

<210> 5394

<211> 436

<212> DNA

<213> Glycine max

<400> 5394

tttgggtacaa agaagaagaa gaagttcata gagatctcag gcttggttaag gattgtaaga 60
gattttttcaa aatgcataac aaagccttgc ttttatagac tcttgatgtc tggccaagaa 120
gaccattcag aagagttatg acttttagaa aaacttaaaa cccatttgac aaagtcaaaa 180
cctttgtgaa gagttacatc tttagatttt tcagagacaa aacttggttaa tcgattacca 240
aataagtgtg atcgattaca ctaagctttt gaggtaaagg atgtgactct tcacattgaa 300
atttgaattt caacgttcaa gggcactggg aatcgattac cagaacattg taatcgatta 360
cagccttttg aatatatttg gaacggtgta aagtcagttt gaaagtcctt tcaaacttat 420
ttttgctact agtaat 436

<210> 5395

<211> 516

<212> DNA

<213> Glycine max

<400> 5395

agcttatcct tctatcaatt caatctgact aaagcctcat tggaaactcgt tcagttaatt 60
aatcatccca ttactcaacc tgaaaaatat tacttttaatt ttcttcttct atagctacat 120
aacagcctaa catatatctc ttcaaccttt tttcataatt caacatcaga gtttaaacia 180
tcacgcaaac gaaaatcaaa gaaataataa aatggaaaca atacaacaaa ttgccccaaa 240
aaaaaatgaa gccacacgtc acacacaagc aaacagtaca tctaaaatgt aagcagccac 300
aacacacggt tattcataat aggttgggtg tcttaattca aggtttggat cagaattaca 360
agagacaaac caacatccca atgatagaaa ttagaaacct accattccta ccacactatc 420
atccattaaa caaagtagac atttaggaca atttcaattt caagggacaa agctagaaag 480
cagatcactt ttcaaaaaaa ctagctgcc acaaca 516

<210> 5396

<211> 436

<212> DNA

<213> Glycine max

<400> 5396

tgatcaaccc cattttccat gcaaaacatg ttgattaatc attcaaacia tcaaaacaaa 60

tattcccaaa ctgaatgcaa tgaacataaa attaaaaagg actgggttgc ctctcagcaa 120
acgctcgttt aacgtcatta gcttgatgca tcttacttta tggatcaagg tcaaacttgg 180
ttccaacctt cagaaccttc tccttctcca cttcatctat ctcaaaatag acatttttgg 240
cctgcaaagt cttttcttcc tcaaataagt cgaagttgat cttctgatta tcaacacca 300
tctccagctt cttctttccc atatctacca catagctggc agttaacatg aaaggacatc 360
ccaagatcaa agggatttca gagtcctctt cgatgtccat tacaacaaaa tcagttggga 420
aatgaaatg ctttac 436

<210> 5397
<211> 453
<212> DNA
<213> Glycine max

<400> 5397

agcttacatg caaacctata acacaaggat gcataacctt tattttttat gtgaaggatg 60
cataacctta ttcaggtata atatgagata aaatccctat cttgttttaa gaattgcacc 120
aacagtacca taggtactgt gtctcaacac attttaagtt tttccattg tttaatgcat 180
ttaagggatc caaccaagac agtatagcta aattgattga atatgatgcg tgagcgatta 240
taaacctctc agtacatgtc ttcgattcct acagacaaaa aaaaaaagaa tccaagggtgc 300
aagtttgaaa atatgttcat cctttaaact ttttttgtgc ctccaatccg ttgactatga 360
gtttgtgtat tggcagcaaa atatattttt aaaaatgtca tgatgaatta ctgaaggatt 420
agcattttta caagcagcac aaaccataat cat 453

<210> 5398
<211> 479
<212> DNA
<213> Glycine max

<400> 5398

tattgcactg caaggatcaac ggatattgga gataataatg aacgccattt tactctctat 60
gttgatcata cattaagaag agaaaagagg cttagtgttt cttgtctgct caatttgtat 120
ccactaaaaa agttaacacc atttttttac ttgaaaatta tattgtctta tttttcatca 180
tcaatttaag acatttttcc aaattaatca ccgaaaaaac atttactagt ttgggatagt 240

ttttgtcata tgatgactga atactat tttt attttgc ttttataaca tgcgaaacat 300
 gccaaaaatt aaaaacactg caacaagcaa aatgtattaa atactaaaca agttttgtcc 360
 cttacatatg tgagagtcac ttacataaat ggaacaatg gaagaaaaca ctataacttc 420
 tctttgtacg taccacatgt ttattaatgt tctgcaacct accttcacca caagccatg 479

<210> 5399
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 5399

agcttgacgt cttaaaaatc aatgggtttt attagtgatt gactacatat gtctctcaac 60
 ataaattatt agtactatca ttactatgat ctgtagctga gcagtcacat ctggataaac 120
 acgcgagct gaagtgtgtt aaattaatat cttgagttgc cataacttaca aacaaatgtg 180
 attaggctag cattaatttg taatgccag gtgtcttaac tactatcata ttacatgcgt 240
 gttaacatat aagctccgac ctaaactcga atataaaaat acgtatgggtg agttattatt 300
 aacaatatga tctgctgaat atgttaagtc aaa 333

<210> 5400
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5400

tgattagagt tctgtcaagg ttaaactact tagtttcacg ctttagtggt ttggaaatca 60
 gttagaaact ccgtttcatg ctttccaaag cattttttca cttttctagg cagcaaaacg 120
 tgattgacaa aaattgtcac ttcgaaacacc accgatggta atgttgcgtt tatttgttta 180
 aacttattaa aaaagttttt tctaaataaa ataagcagtt gtgtttttta atgtttgctt 240
 aaagtacttt tgctttttta aaaaaatgtt ttttcaagaa gcaaattttt atctgcttga 300
 aaaacactct tttcaciaat gttttttttt tcaagtttaa ataaacaagc ccaataattc 360
 ttgaagtata gacataagct aggattgaag cctttacaaa gtccttaatt ttattttatt 420
 tttatagatt ntgttcattg ttctaaaaat atatnaataa atttgacttt tttgttataa 480

tatcctgaat ggtatgttgc atctatcact ctttg

515

<210> 5401
<211> 402
<212> DNA
<213> Glycine max

<400> 5401

agcttgaagg tgtgtagccc accatctttt catagtagaa tactggtaat gtgtctacta 60
tcattgacat catttttttc tttgtcattg agggaaacac ttgggctacc agatccctcc 120
acctttgggc gtattctttg aaagatctgt gccccccctt tttttgcaca tgttttgtag 180
ttgcatccta tccaaagcca ttatactgac actgcctaac gaaggcgacc attatgtcct 240
tccaagaata gactcgggaa ggttccaagt tagtgtacca ggtaacagct accccagtaa 300
gactttcttg gaaggaatgt atcaacaatt cctcatcttt tgcgtatgcc cccatctttc 360
cgacaatata tcttttagatg gtttttgggg caagtagtcc cc 402

<210> 5402
<211> 448
<212> DNA
<213> Glycine max

<400> 5402

tttcgcaaag cttacggtaa aatctgggac ttagccatgg tagaagtctc cacagtggcc 60
attacctgcc tcgccaata ttatgatcag ccgatgaggt gcttcacctt tggggacttc 120
caactatcac ctatggtaga agaatttgaa gagatcctat gatgccctcc agggggaagg 180
aaaccatacc tcttctcagg gttctatccc tcattagcta gaatttccaa gatagtcaaa 240
atctcggcgc aggaattaga ccacaggaag caagtcgaaa atgggggtgat tggaataccg 300
agaaaatatt tggaggcaaa agcaagaatc ttggcaggta aaggggcaatg gaccccgttc 360
atatacatgt gaaatgagca atacaaggat tggttgctgg actccagctc tttatgtatg 420
ggtaggttca cacctttttc gccaaaag 448

<210> 5403
<211> 226
<212> DNA
<213> Glycine max

<400> 5403

ccatgcaaaa tttctgtctt ccaccttaat tcataatgat tcatatgggt tttatcgaac 60
tcgcttactt aagaaaacca aatgatgggt atgggagctt gccttcaatg gctgcaaaaa 120
aaaatgagag acacacgtcc tcacaggcat ttcggacttc taaaatgttt gcgtgcgcta 180
cacacggcta ttgctaaaag gatggtgatc tgcattcaac gtctgg 226

<210> 5404

<211> 430

<212> DNA

<213> Glycine max

<400> 5404

tttgcaagct ggaatcattt atcctatctc cgatagccaa tgggtgagtc ccgtccaggt 60
agtcccgaag aagactggcc tcacagtgat cagaaatgag aaggaggagt tgattcctac 120
tcgggtgcag aacagttgga gagtctgcat tgactatagg aggctgaacc atgttaccaa 180
aaaggaccat tttcccttgc cattcattga ccagatgctt gaacgcctgg caggtaaata 240
ccactactgt ttccttgatg atttttctgg ttatatgcaa attactattg ctctgagga 300
tcaggaaaag accacattca cctgccccctt cggcactttt gcttataaga agatgccttt 360
tggcctgtgc aatgccccctg gtaccttcta gcggtgcatg attaataattt tcagtgattt 420
tttagaaaat 430

<210> 5405

<211> 874

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5405

ttgaatgcat gcattgcccg ngatnctnta gagtcgaccc gcggcatgca agcctaacat 60
agcgatgtgt atatggcaca cgatgtttta tacactgatg atttcttcat cgccgaaagg 120
tacgccttga gcccttgtaa acattgttta acatatatac cataaataat caccctattc 180
cttgacttaa tataatagat gactacagct ccaataagat cctgtggttt aaacactatt 240
tataagcacc atcctcttgt aataatgcc aattgtatgg atccacccta tgacacgtag 300
aagctataat tgatttgaat atgatacggg tgcgactatg aaactctgat tccaagacta 360

cgattcctcc atccaaaata taaaagataa tctctatgag gcgaggaaag aaggtaatgc 420
tcttctcttt taacatttta ttgagccta ccgatccgac gacatataag tcgagtattg 480
gactcaaaaa atatttttat atattgtaac ataaactcct gaatgatttg gttaatagca 540
tcccccaaca agcatattca tcgataactg tcacactgtc tctcccacac aggggcatgc 600
agataggatt ataagtctca ccgcgtgtct ttcggggaaa atattcctat ccacaaaaga 660
ttttgaacag ggctatgaga ccgcttccgt atttctgtaa cgaaaataat gaaatccttc 720
tagctgagcc ttggcgagac ccggagaaaa cattcagagt ttatacaccg tctcttagaa 780
caagcgact taagactcct ctccattcgc tgagacctca aaattttttt ttcaataata 840
gacgctctat ataaaggggt tcccctatta aacc 874

<210> 5406
<211> 824
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5406

atagccctgt ggagtcacct gagattgaga cattatgatc ccctttacct atctatgccg 60
atcattgatt tagagcagaa tagaagccta ttgtgaaatg gccgctcaat tccgcttccc 120
tcaaggagtt gacgcgcttt gtgtatcttg gaaaggaatt aagctcgtag aataatcagt 180
agtgtagtgt gggagagtgg tgtccaaatt aagtaaccgg aaaatacact ttactaactt 240
tggcgataag ttttttgtca taatgatgac ttgcatgact aattttatctt ttgatagtct 300
cttataaaca ttgcgaatac attgccccaa aattaaaaac cactgcacca agcctaattgt 360
attcacatac tacaacaaag tatttggtcc cctcaccata ttgtagagga ggtcatttta 420
cattaaaatt gtgataacat tggacagatg aaccactatt atctttcttc ttttgaccgt 480
accacattgt ttattaatgg tctggaaccc taccttttcc accaaccatt gtattaatat 540
aattgttagg ggacaattgg gggacctaaa cgttggcatt taacgtggaa aaaaatgcct 600
ggggggggat acaccttgtc tgaactctcg tttgcctac ttaaccttct tggcttgac 660
ttattataca atatacacct tggtttttct catgttcacc aacttcccct ttgttccacg 720
agccaaactt tttctataat tatttattac ccaatggtag ctattctata cactctttt 780

tttggggatn tatctctgtg cnagactaaa aaaatacaca tacg

824

<210> 5407
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5407

tcttgagaag cttccttgag aagattccta aagaagctag agcttagcta cacacacccc 60
ctataatagc taagctcacc cccatgccaa aatacatgaa aatataaaaa aagtcacctat 120
tacaaaagact actcaaaatg ccctgaaata caaggctaaa accctatact actagaatgg 180
ccaaaataca agggcccaaaa gaaggaaaaa ccaattctaa catttataaa gaagaatgga 240
tccaaccttg acccatgggc tcaaaaatct agcctaaagt tcatgagaac cctagggcct 300
tctttagtag ctctagccca agcctcttgg agtcttctat ccaataccct tggnggtagg 360
attgcatcat aatgtaatcg attaaatact caaagtaatt gattaaagtg ttcttgttca 420
cttctgaaca actaagtgag agagaagtaa tcgattaaac cactacgtaa atgattaaag 480
tatagactct tgaataatca gtcatttgc tcaaacaacag tgtaatctgt tagaagatat 540
ggagtagcaa catgaacaac ttaaccctaa aacttgaagc ccaaggctaa agttt 595

<210> 5408
<211> 462
<212> DNA
<213> Glycine max

<400> 5408

tttgagaagt attataagct cggaattcat agcctctgca cttggatttt gggataccaa 60
attgggcttt gctctgtgca atcaacttaa ctagattaat tatatgggcc taatcaaagt 120
gttgaacaaa tggcctcaat aacttaagaa gggggtgaa taagttttaa atttttcctc 180
ttacaacttt taacccatt ctaaatagata agctcaaaat gcacaagaag aagcaacaat 240
caatttaata atgttctttt aacatgcaag aaaaaattga ttgcaataac atatatgaga 300
ttagggaaga gagaaatgcc aacttgattt atactggttc gaccattttt cgtgcctaca 360
tetaatcgtc aagcaacttc acttgagaat tttcaatatc ttttgtaaaa tcctttttac 420
aacttttaac acctaaagaa tccctttccc tttgttcaca aa 462

<210> 5409
 <211> 924
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5409

tacgtaccta acatccccgc gcacacatna ncgtntcaaa ctcacttcct gatcattnac 60
 tgttttcttct acgtatccat naanacaann ccaacacacn naaggnnntt tgattgcttg 120
 gcagtcncct gngatnctct aggatacact agaggcgagc tgaacgcatg ccacctttac 180
 aaccttagaa atcgagtgat catacgtgcc gcaatatctg gggagacaac accgatcatt 240
 atctctatac tatggctggc agcctgctcc aaccatgatt ttacgaattg tgatattttc 300
 acaaacaagg ggagatacta actaccttgc tgttgatgtt ttccccacgt aaatgatgat 360
 atcaggcaat tgtagaatat gctctttttt atattcgtga aaactactct actaaaagaa 420
 cacacgacac taatttcaaa ataccactca ttttttatga acggaaatac gtataggcat 480
 atcgaaatgt atagccctat aaacaaaaat atataaagat ccacaaaggg tttattttct 540
 ggcgagtgga caaccggaaa agatgacctg ttaccaccgc tcaaagttaa ataatgacaa 600
 cctcctgaca attgaatttc acatcttaga ccgcgcattc aaaaacccaa ttgcgggaat 660
 attctccact ggttaccaa ccgtttataa ataaacttaa aaaacgggaa ccgctactcg 720
 gtttttttaa aaaaggatat ggacgcgatt ccataacctt ttcatacaga atccccccnt 780
 atacaaaggc tccactcata gaacaacaat gaccgtgtaa aaacttaacg cttaacaaac 840
 attcttccta tttataaaaa aaaaccaccc tcgttcttca aaaaagaaca aagactttca 900
 ttcttaacta aactttgtgg aaag 924

<210> 5410
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 5410

ctttgtttgg tggagtattg atttttaaac gacttaagcc tagtcttgac ccctagaatt 60
 acaagtctac catatggggc ttctatatat taattgatac ac 102

<210> 5411
 <211> 569
 <212> DNA
 <213> Glycine max

<400> 5411

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agcttccttg agaagcttcc ttgagaagat tcctaaagaa gctagagctt agctacacac 60
acccctata atagctaagc tcaccccat gccaaaatac atgaaaatat aaaaaaagtc 120
cctattacaa agactactca aaatgccctg aaatacaagg ctaaaaccct atactactag 180
aatggccaaa atacaaggcc caaaagaagg aaaaaccaat tctaacattt ataaagaaga 240
atggatccaa ccttgacca tgggctcaa aatctagcct aagggtcatg agaaccctag 300
ggccttcttt agtagctcta gcccaagcct cttggagtct tctatccaat acccttgggg 360
gtaggattgc atcataatgt aatcgattaa atactcaaag taattgatta aagtgttctt 420
gttcacttct gaacaactaa gtgagagaga agtaatcgat taaaccacta ggtaaattgat 480
taaagtatag actcttgaat aaatcagtca ttgtctcaag caacagtgta atctgttaga 540
gataaggagg tagcaacatg aacaactta 569
```

<210> 5412
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5412

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taggccaatg cttccatttt gagagtcatt ttaggcttgg aattcagagc ctctgcactt 60
ggattttggg atccgaaatt gggctttgct ttgtgcaatt agcttaatta gataaattag 120
atgggcctaa tcaaggtggt gaacaagtgg cctcaataac ttaagagggg ggtgaattaa 180
gtttcaaaat ttttcctcta acaaactttt aacccattc taaatgatag gctcagaatg 240
cagaagaaga agcaacaatc aatttaataa tgttctttta acatgcaaga aaaaattgat 300
tgcaataaca taaatgagat aagggagag agaaatgcaa acttgattta tactgggtcg 360
accatttctc gtgcctacat ctaatcgtca agcaactcac ttgagatttt tcactatctt 420
tgtaaaaatc ctttntacaa cttctgaaca cct 453
```

<210> 5413
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 5413

agcttgtcag cataagcatt gccttcatgg tagatatgta aaattctaaa actaaacttt 60
 ttagttggat ctatacaatt cacctagcag ttgtaaaaag tccagggggc tgaaaaagga 120
 tgattatata atgcacaata ttgaaaatat tgttgtatga ttgtgctaata cctaattgta 180
 ttgagaatat tgctacatga ttgtgctgat cttaattgat tctatttgta ttaattctga 240
 ttgtatgtat taattcttat tgtattttta ttttattttg tatcttgatc tcttgattat 300
 tgggatcact tatttttagg atagatagtt gtatcagata tgtcaggaaa agctataaga 360
 gaaatcttag ttaggtggtt ggatgacctt gtatatatat ctatcaattg gttttaatag 420
 aggcagaaca acaaggagga ggtgaagcaa aagctaacga gaatgaaact cgagatg 477

<210> 5414
 <211> 536
 <212> DNA
 <213> Glycine max

<400> 5414

tccatcaagt ttgaatcctt gtttgttcgg attccccata taattcactt cctatgcagc 60
 atcatcaagg ggtatacaac aactagattc atatgctcct ccacatatac tacaacctcc 120
 aacctgtatt actactgaat gggaagggtt aactacttgc agttggggtt gcagcttact 180
 aagtgtctct gtcaatgatt ccagttgttt agctaacaac ttgttcagtg ccaacagtgc 240
 atcttgtgaa gaaatctcta gtaggcttct ctttgtgggt acatgagttc tatcacacag 300
 aatagcatga tcaactagtag ccatattctc aataagttcc atttcttctt caggagtctt 360
 taatttaatt tttcctcaag aagaagcatc caataactgc ttggactgca gtctcaaacc 420
 atcaatgaaa atgttcagct gaatcgggtt ggagaatcca tgagttggtg tttttcgag 480
 caagctacag aatctctcaa gtgcttcact caaggactca tcttgaaact gatgga 536

<210> 5415
 <211> 738
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5415

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ttcaatacaa gttatcagga aaaaatatga gttataatat tcatgtaacg aattttttaca   60
atatttttat aatttggttg ttatacatTTT cccccatta ttatgccaat catgatattt   120
taacaaatca ttgatctata cttcttactt ttataattta gttttctccg tattatctat   180
cgcattagtc atttatatta tatactTTTT ttttatttgt tgaaaatttt gtacaaaatt   240
gacatacaat tataatttca atataaaaaa cattatatat atatatatat atatatatat   300
atatatatat atatatatat atatatatat atatatatat atccccctccg agatgtataa   360
cccgcaagga cagtaagata actntacctg tcacatacac ttggctTTTT ctaagtcaat   420
tccaggacta gttaagtagg tttttttatt ctttctttca cgaactTTTT ctcacaatga   480
tgcattgtcc atcccataac tatggaagaa gaatctaaga taccatgccg ggggagtaat   540
ctttttataa ttnccttattc ttgggagcac ccctctataa taattatata tccaaattaa   600
ttataccccg tctcttatct catgtatttt gaatattgtg gttggaaaat attaaacctc   660
agctcttaca aaaaaaaaaat acctacccta ctttatggaa accttctggg ggggatttcc   720
ttatcttatt ggggggaa                                     738

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<210> 5416
 <211> 466
 <212> DNA
 <213> Glycine max
 <400> 5416

```

tgctcacttt gatactttgt gcttgctttg tcatttttgt tcccatagct cataggctag   60
ttaagattgt gtataatcaa ctacttttgc attgactttg ccatataatt ccatgtcagg   120
tttatgctat attgaaataa attttcattg actatgggtg tctctgggaa gtggattaaa   180
gcattggttg gtctaaagaa atcagaaaag ccagagaagg atggaaatgt gagtctctct   240
ctcataaacac ttcatactca tattcctgag tttcagtatt tattttcatg ttatgttggc   300
aaaaataatc atcacctatg gcgcttttaa ctaaggttct gtatcatcat gtagttattt   360
ctaccacacac taccacaaaa gaaaaacaaa agagttttgt tgcttgtgtt tcaactcaag   420
agggaaaaga ttaatgggtt tcttgtgcat ttgcgagtgt catact                               466

```

<210> 5417
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 5417

agcttatata tatcgattcg ctcaaaatta aacatcagaa actctcaaga aattcaaata 60
 gtcataacta ttcacacgga tgtccgattc gggcgcataa tatgtcgaga ggctcgaaat 120
 tgaacaacgg aagctgttga gaaattcaac tgggtataact ttttacaccg atgtcccatt 180
 cgggcgcata atatgtcgag aagctcgata ttgaacaacg aaagttcttt agaaattcaa 240
 atggtcataa cttttcacac ggatgtccga ttcaggctta taatatatcg atacgtcca 300
 aattaagcat ccgaaactct cgcgaaaatc aaatggatcat aacttttcac acggatgt 358

<210> 5418
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 5418

tgaatcggac atccgtgtga aaagttataa ccatttgaat ttctctagag cttccgttgt 60
 tcaatttcga acttctcgat atgtgatttg cctgaatcgg acatccgtgt gaaaagttat 120
 accagttgaa tttctcaaga gcttccgttg ttcaattttg agcgtctcga tatgtgattt 180
 gcctgaatcc gacatccgtg tgaaaaggta tgccccctga atttttcacg agctttc 237

<210> 5419
 <211> 533
 <212> DNA
 <213> Glycine max

<400> 5419

agcttgctcg tcttgctgat atttatcatg cagacttttc tgatgatgac cgaggaacaa 60
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tgggtcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattgcy gtgtcgacag catccgttga 240
 aagagctttt tcagcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300

gtggttcaat gacttgatgg tatgttacac cgagcgggag atattttaagt cgcttgatga 360
tattgatatt attcgaacat ttacccgcaa aaagtctcgg aaaggacact tgcctcgtaa 420
ttttatttaa cccgctattg aagagtatgt ttatctcttt tatttttaaac tatactcttg 480
ttgacaaaat gacgagtctc ttttattttg aatgattact atctacatat tat 533

<210> 5420
<211> 508
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5420

taggtaaaca tcataatcct ctaggactaa cacgattaaa gtagggaatc ttaaaaaaaaa 60
gtaacaacaa gtagtttatg caatgactac acagattcat cacacatcag tgcaattatc 120
tcaatatttg ttctttggtt ccttggtttg cgcagaaggg caaggatttc atctggagaa 180
cacccaaagg ttgcatttaa ctcaatcgga cccttgatac taaattacga atagatgaaa 240
aatatttttc ctacatcatc gtcgtgtttg agctccatac agtcatatgc aacacaacca 300
tcacctatat agattgggta acagtaaaaa aagatttatt aaaattctac aaccttcatt 360
gtgtcaaaaa ttattttcct taaggcagca aacaagatgt cctcacttat tgtgatgact 420
ttangatcac tanggctttc aaacactatt cctttatctg atggaaataa tgtcacatca 480
taatgcacaa aagcggatac actcttca 508

<210> 5421
<211> 349
<212> DNA
<213> Glycine max
<400> 5421

agcttataat atatcgatac gtcgaaatt aaacatcggg aactctcgag aaattcaatt 60
tgtcatcatt tttcacacgg atgtccgatt cgggcgcata atatgtcgag aggtctctaaa 120
ttgaacaacg gaagctcttg agaaattcaa ctggtataac ttttcacacc gatgtccgaa 180
ttaggcaaat cacatatcga gacgctcaaa attgaacaac ggaagctcct aaaaaattga 240
aatggtcata acttttcact ctaaagtcca attcatgcgt atcacctata gggacactcg 300
gaattgaaca acggaagctc tcccgaatt caaatggtca taacttttc 349

<210> 5422
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5422

cgaatcagac atccgtgtga aaagttatga ccatatgaat atctccagag ctaccgttgt 60
 tcaatttcca gcgtctcgat atgtgatttg cctgattcgg acctccttgt gaagagatct 120
 gagcatttac atttgacgag agctttcggt gttgaacttt cagcgtctcg atatgagatt 180
 ggcttgaatc ggacatccgt ttgaaaactt acgaccattt gaatttctcc agaactatct 240
 ggtgagaatt tccagcgtct ggacatatta tgtgcccga tcggat 286

<210> 5423
 <211> 1044
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5423

aaaataacgt gattactcac aacttgcacc acaacttctt cctcaactat tctccgctag 60
 tatatgtaat gtctaataatc tccancacan aacctccaac caaccaagat gaaaattgat 120
 tgcacgcgat tccactccga aactcaccga gacacctctt gaagcgatct cgcacgcatg 180
 acaaaaataaa tgagtctatg agatatatta tctcataaat ctctaaaaca acaccagggt 240
 gtaggggtac tgtattctaa ttaaactact caacagttaa tctttaacta aaatctgcaa 300
 gaattctcaa tccaatactg tatctatatt gcacacacaa agcgggggtt gaacttctta 360
 taactccgga aaaaagattc tctctcgaa taattcaaac tagcttggtg tcttctaacg 420
 ttaaatgaat tacttctaaa aagcgtgtac aaaattcaat taacttaatc gcaattcgaa 480
 actacaacat acacgcggcc ctggtactta gacgtaatcg gcgcaaacc caactaccta 540
 cgcattggctt acaacgcaat cttacattag aagcaaacta tttaaaatac ctccctaata 600
 agcgttaagc aatttagaaa tttctccact atatatttaa tacctttcat ataccacct 660
 aaaaacaaaa caactctgtc actaacaaaa aattttataa gccatacaca tgcaaaattt 720
 tcttttataa aaaacacaag gccaccgcaa caataagtta cataacaaac ttgatatctt 780

aagtggacct gtacatcctc tatgggggtgg actaccctta taaccacccc cctcccctgt 840
gccatagacc attgacaaac cagatatcaa caaacggtac ttcccttttc tttcggcaca 900
gaaaataaat tcaccccact catacaaaca tcgggagtag ctgtacaaca aaatcatata 960
tactaaatgc gcttcaatat atgcgcta atcatcaacg acacatatcc accaatataa 1020
cagagcgcgt gaaaatatct atcg 1044

<210> 5424
<211> 934
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5424

tatagggAAC gtcaacaatc ctaccctcaa tttctatcac ctctcgagcg ggatctacan 60
aacattctac taccatcnca aaagtcccg gacncnattg attggcctcg cctttgcgng 120
acacttgcta caaagttgac cttataaata tacgagcttg cgggcggtct cgcccctgcc 180
agcttatctc aacccaacga aaccggttgc ttgcggcaaa tgccaacaac ctttgaggga 240
atcctcgca agggccacgg gcccgatgct tttacacca ttttaactaa atgcaccccc 300
ctctcccatt tgggttgaaa atcaattttc gcaaccttac aaacccttag aatcacctc 360
caacctgctt aatcccaact accgctctct ggtaaaaatc ccactcagc ttatacttgt 420
gggaacctgc actctaaacc tcctcaaaaa actogaacac tcaagctcaa catcctcaca 480
actatcccc accccctaca ataaatactt gaacataatc ttcccttttc cacaatccac 540
accaccacc gactcgatct gtttcttctt cccctccct ctcataacc atcccaactc 600
cttctgcca atccaccac tatctgcttt tccccacnn cctctttaa cttttccacc 660
cctttctct cccaccctt ttccatcct ctetaacttn gatctctct cctccccccc 720
tcctcctntt ttcttttccc tactaacctc cctccacatc ccttctcaca cccaattccg 780
tctatctctg cacaatatac cacacgtctc attggtaacc ccaagacatt ttctacgtac 840
taatgttct agcagactc tgtacacccc aaaaatatct aacattctca ctaacacctc 900
taacgatacc ttttatcaac acaacaaaac tacg 934

<210> 5425
<211> 197

<212> DNA
<213> Glycine max

<400> 5425

agcttcaccg gatgatgccg atcgaacatt tcctaatcga catcatccaa ttgttattca 60
gggattgaat aaaataaaca atggccgggg tccgtcgta tatggccccg actgatatct 120
ttcagccgac attgcgcaat ttcttttaca aacgctggcc gataatgttt ttttatttac 180
ggtagaggaa gttttttt 197

<210> 5426
<211> 345
<212> DNA
<213> Glycine max

<400> 5426

agcatctcaa tatgtgatgt gcctgaatcg gacctctgtg agaaaagata tgaccattag 60
aatatgtgga catcttctga agttcaagt atagagtgtc tcaatatgag atgtgcctaa 120
atccgacctc cgagtgaaaa tctatgacaa tttgaatttc tcagaatctt acgctgggtca 180
ataaagagcg tccccatatg tgatgtgcct gaatccgact accctgtgaa aacttatgac 240
cattttgaat ttctccaaaa gaatttgtcc ggccatatgg agcatccatg atatattagt 300
gcgactgatt cccacattcg atggaaaagt tatgaacttt taaat 345

<210> 5427
<211> 443
<212> DNA
<213> Glycine max

<400> 5427

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatct tcagattggg aatgcctcta atagcacctt tgtcaatgat tttcttcacg 120
cctcttaagt gcagatatcc aaatctttga tgccatattc tgacttcacg tttcttggag 180
gatagacatg tggaggagta actggtttct tgagggtgtcc ataggtagca gttgtccttt 240
gatctgtgc ccttcattag aacttcacac ttctcatttg tcactaagca ttctgacttt 300
gtgaagttaa cattgaatcc ttcacacac agctgactga tgctgatcaa agttgcagtc 360
agtcccttca ccaacaggac tttgtccaga ctaagaaagt catcatggac tataacttccc 420

attccagaga tcttttcttt aaa 443

<210> 5428
<211> 466
<212> DNA
<213> Glycine max

<400> 5428

tttcgattca ttctatgtac ccgtggtggt ccacattgtg tttcgcgtat ttttattctc 60
gtttcattta ctttttatac ccccttttga cgtgcttaag ccattcttatt taagtcattt 120
ctcgcttaaa ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
acttcggtta aaatgaattc cgaccgttcg gttgtgccgt aaccacgttg gaaattaaaa 240
aaaaaaaaaga ggtaaaaaat aatataataa taaaaaaaca tcttttttagt aaaataaagc 300
ggaaaatcaa tcggacgttt tctctttggg atttctcatt cttaaccgaa ttgactaata 360
actaaagtga aactaaggct aaaatcaact ctctagtca agctcgtcca taaaaatagg 420
gtttttgaag tttgtcattt caatttctta cctaataaaa tggatc 466

<210> 5429
<211> 477
<212> DNA
<213> Glycine max

<400> 5429

agctttcaac aaatgtcttc acaaataatc atcacacagc agaaaactaa caaaactacc 60
cctcatatct cccaaaaccc cataccacag aaaatcaaga gggaaagaag tccacccaaa 120
cctgaaattt cgaagtccca ctgtagcca cgcactttac gactccaaaa atgctctcct 180
ttcacgattt ggggcagaaa tgggtggcaa aggttgaagc tttgcttgaa gcttcaatgg 240
agaatgaaga agaagaaagc tacgtgagag agggagagaa aaggcttctg aatttctgct 300
ttggctgagt gaggagagag aaaagctttt tggtttttaa aaaaaataag aaggggtttc 360
cctttttttt ccattatttt attcaagctc tgccacatgt cccttattga ttggagcaaa 420
aaggcccaact ttctcttttt gactgtgacc cataactcaag cacaaaagtg agaaaaa 477

<210> 5430
<211> 521

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5430

tcactgaata gcttgtgtta ttgaagaata ttcttcttga atagaacacg ttacccaaaa 60
atcagtacga ggcaaataag atattatgtc ttgcacatat ggagtaccaa aaaatacatg 120
catgccctaa taattacatt ttgtatagaa atcagtttgt cgaaacacac aaatacccca 180
caagtgggta tcacagtaca aattgaagga taacacatgt agtgatgatg caacgaaaaa 240
caacaactat ttagcaaagg tgtgctaata tctttcaatt attccaaggt tgcagtgatt 300
gttttctaata ggacatgata caaaaaaact taacatggca tgcagctggg agaaaaagtg 360
atggattgct ccaacatccc gttgattatc cctaatagaa gacaattgat catttgtatc 420
ctanatttgc ataggaccta tganacctaa ggcttgggtc tgcttcagct ggaatgaatc 480
atgttggtaa cttaagcacc aaccataatt catggcatgt t 521

<210> 5431
<211> 798
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5431

gaaanatgan accatgtcgt acccngatc ctctgagatc ctctgcaggc atgctaccgc 60
gtgcgcccta tctgaatgag tggcattata acgcgctaac tgccatcatc acgaggggac 120
cgcatctgtt gcagttaaac caacaatgtt tttgaaaatc aacagtgcac gaaatgttgt 180
acactacgaa cataactatt gcacgacaga tggagggtgtt gggatcatctt gaaaaggatg 240
tgtaccacct gcaacattaa caggtcgggt ttgggtttat aaagtgagct ataagagaag 300
agacattctc tcccttatgt tagtgcaatc acccttaata tcctagcgaa atgatgtata 360
gtatcaacca ttttcgttgc gagttttact gtattctgca tagatgaagc ttataaaatc 420
gccgtatttc gtgaagaata tgtgaatttt actataaatt taagactatc aatcatcccc 480
ttataagaat actctttttt gaaaaatgtc ccattataag acattagatg tcttattcat 540
gaaagactta gttcattgaa cataagaaac caatntatct gttgtgtagt tgacctgtcc 600
aattatgcgg tattttatctt aaacttcctg ccaccgtgct ggaaaattaa caaagaagag 660

cttttttga tacattttcc gttgggggag aacttttaaac cacatcaggg gggggggtcgg 720
 tttttacatg gaagctacat taaaagtgtt gtaattgtat accaccaaaa tgcggctttg 780
 ggggcccggtt attttttg 798

<210> 5432
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 5432

tgccgcccag ctgcgccatg cgagctcata ttacccaggc gagccacgtt gcttactaca 60
 catgccacca ccctctggag gaatcttctg gaaagcccat gtgggcctcg attgctattt 120
 acaccctat ttactaaatg cccccctt ttctattcct ttgcgaccc ttttccgaca 180
 cgttaccaac ttaatttttg tcaactgaata aaattttgac taattctcca cagtgggaat 240
 tttatgcccc ttaaaaaaaaa taacaccatc tcccattt 278

<210> 5433
 <211> 475
 <212> DNA
 <213> Glycine max

<400> 5433

catgggttaa gcacaaggaa gactctttaa gaagatgagt tgtacaggct cgcttaacac 60
 actgcttcat ccactaagc gcatcgcttc agttcattag ctaagcgaga aaggcacgcg 120
 cttagctcaa attcactaat atgcgctaca cgatccataa gtgcgttaag cgcacgagca 180
 cgaacaaggc cacctattta cacctgaaat aagattttac agagagagtt tggactgcga 240
 ttcacagctt tgcattgtag gggtttctag agagagaaca atccatgttc tataaagttt 300
 tgagagaatt gtgtgtgcga taatctgcag agaccatatt ttgaagcacg agccacgttt 360
 agagctcgag atgagttttt gagggtattg gagatcctag agatgaaggg gacatcctcc 420
 ccacttgttt tctgcaattt ttcattttgc cctctctttc ttggaagaac gcttc 475

<210> 5434
 <211> 487
 <212> DNA
 <213> Glycine max

<400> 5434

cccgagagca tctgtattta agcacttcag ccttagcttt tctgtagctt atgaaaaacg 60
tcaattcttc ttctttcttt ctttcaaagc cttttctaaa gttccaagca ctttctccat 120
caccacagc caccattagc aaccacaaac catcattgtt ctccattgaa aaccacacc 180
gagaggaacc cttcaaccga agcggaatct tccaacttgg cttgcggttc cggtagagaa 240
cgaaaaccct aatctgacct ttcaaggtaa ccatgggtct atgcttattt cttgttaggt 300
ccatattgtc ttgcatctt ttctgccttt ggaaccgcca ttgcatgtct tatgcttctt 360
ttgaaaaacc ttagagaaat agactttggg aacgttatac tttcatgaaa tgcattgtat 420
tttcgtaaac aacactgaac ccccgcaaaa ttggcgtggg gcggaatttc aaatgacgtt 480
cctttgt 487

<210> 5435

<211> 566

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5435

agcttgtgtg cctcatcaat aggagtgtga tttttaggtg ctaacggaca aaatcacaaa 60
ataccacat ttgttgcggt taagccaata aggtttttga attaaagctg tgaaaagaag 120
gttgtaact tgaacaaact atgtatgttt aatggattgt ttggtctctt gaaaaggatg 180
tgtaccactg aaaaacattt gaagggtcag tgtagtgggt ttataatgtg agctatttga 240
gaagtgtcgt tctctccctt atttttgtgc agtcaccctt aatattataa cgaaatttgt 300
ttaaataata accatttttg ttaaggatat gtactttttt ctgtaaaaaa aatgcttaaa 360
ttatgttagt atttctgaa atatatttga attttattat ttttttttga taaatttttt 420
ctttattttt tgcttcttaa tttttgaaaa aggtcccatt antagccatt aaatgtctaa 480
tacatgaatg tctttattaa taaattaaaa aaanattttt tatatttttt cttctttttt 540
cgatcactct tcattttttt tctttt 566

<210> 5436

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5436

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cattcaaaag tgaatgaacc aacaagcaat tgaccagaca tataagcatt ttcagtgcaa 120
accattttgt gggcatcatg atttgaataa atatgcttcc agtcatcaac caaagcgccc 180
tcaaaaggta caccttgact actcaatttt gtcaatgaat aaaataagga ctaatcaacc 240
acaatgggaa ttttatgcac ctcaaaaaag ataacaccat ctgaatttc agattattat 300
aaaaaacata gactaattca gaatagtatg acattttgag agtcataaaa tcgattaatt 360
cagaattttg aaagacttga tggtaatcaa aagtctctcc ttcaaagaat tntaagtcta 420
aatatttggg atcaagaatg actcgattgg anaatgagga atagtacctt tgacgttgat 480
c 481

<210> 5437

<211> 488

<212> DNA

<213> Glycine max

<400> 5437

agcttctata taagctgaac cattttatca ataaagacaa gttgagtttt attcagaaaa 60
ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct tgctggaaag 180
agtgaatctt tccttctttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240
tccaccttg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttt tggaatcacc 360
tcatttggag ccctgtagct tcagttattg ccatttctat atttctgtcc agccaccact 420
taacctacgt ttaccatcc cattcatcca ttttatgcc aagaaccact tattaagacc 480
cacgaaat 488

<210> 5438

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5438

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tctgagagac cgtacaagtt tcctagcgat ttctaattat gtgggtcatt aagtctatca 120
tatgctgaca atagctgaga agcccgtgaa tttcttcggg ggccggagtag gtgtctgcca 180
tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240
accgatccat ccacatgggt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300
ctttttccgc gtatacttgg gcatactcgt ccgcgaccct atgctcgtgg gccgtggcta 360
gacctaacctc ttcttgggtac ttggcgatga tagctagcat gttgggtctct gtctcgcata 420
aacgctg 427

<210> 5439
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5439

agctttgaaa agtggtgttt ttcaccttct cgctaagcca atctgctggc ttagcgagcg 60
tctgctaagc gcaacactca tgggttaagc acaaggaaga ctctagaaga agatgagttg 120
tacaggttcg ctaagcacac tgcttcatcc cactaagcgc atcgcttcag ttcattagct 180
aagcgagaaa ggcacgcgct tagccgaaat tcactaatat gcgctaagcg atccataagt 240
gcgttaagcg cacgagcacg aacaaggcca cctattttaa cctgaaataa gatttttagag 300
agagagtttg gactgggatt caaagctttg catgtagagg gtttctagag agagaacagt 360
ccatgttcta gagagttttg agagaaatgg ctgtgtgata atctgcaaag accatagctt 420
gaagcaggag ccagttntag agcttgagat gagtttatga gtgattgtga gatcctanag 480
atgagggaga catnctcacc acttgatatt ttgcaatctt tcactcttgg cttctctttc 540
ttga 544

<210> 5440
<211> 457
<212> DNA
<213> Glycine max

<400> 5440

tccgttcccg agagcatctc ttatttaagc acttcagcct tagctttcct gtagcttagg 60
aaaaacgtca tttcttcttc tttctttctt ccaaagccat ttctaaagtt ccaagcactt 120
tctccatcac ccacagccac cattagcaac cacaacccat cattgttctc cattgaaaac 180
ccacaccgag aggaaccctt caaccgaagc ggaatcttcc aacttggctt gcggttccgg 240
tagagaacga aaaccctaatt ctgacctttc aaggtaacca tggttctatg cttatttctt 300
gttagtttca tattgtcttt gcactttttc tgcctttgga accgccattg catgtcttat 360
gcttcctttg aaaaacctta gagaaataga ctttgtaaac gttatccttt catgaaatgc 420
atgttatttt cgtaacctac actgaacccc ggtcaca 457

<210> 5441

<211> 536

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5441

agcttttatc ttgcgaaaaa tcataaaacc caaaaaaagt gggacaccag agaaggctga 60
ggttcacaaa aaaatttaag cttttgtatt gggagaaata aagaaacaaa caaatgtag 120
tcagagaatc aaagaaaaca aacttgtttg agataaaaat cgaagctttt tgtagattag 180
tgtcttggtc caccttctct gcatacaata gcaaaggat tgtgagaagt cagaaaataa 240
aataaaaaaa attaaacttt ttgtagtgcg agaacttaga aaacaaaata aaggaagaac 300
acctaaaaaa ttaaagcttt tgtcttgtag aaaatcataa aaccccaaaa aaatgggtat 360
aagaaagaat gaacacattt gagaaggctg acgaaaacga naaaatttaa ccctaaacca 420
aaaaaacaaa gaaaatgaac ccatactcgt ggagttttca aataaaaact gcagttgtag 480
tctgctctcc acctcctctg catgcaatag aggttgacta aaaaaatgta agcttt 536

<210> 5442

<211> 489

<212> DNA

<213> Glycine max

<400> 5442

tgaacttttaa aataaagaag gaagcaaatt gaaccttttaa tggcagagct gtgcaatgtt 60
tcttaatcgt ttgtgatttg ttttgagggtg taagggtttt taaaattgga atgttttgta 120
aaaaaaaaat tataagcaaa tgtaattgt tagttttttt tgtagcacg agggttgaa 180
tcgcaaggcg gcgacctttc cctccttccc ttctttctta aacacccaac caaccttata 240
tctccctggt ttgttagttt gttagttttt ttaaaaaaa ttggaatgtt ttgtaattgt 300
tgggataatg gtttcctgtg gtttgttatc tctggtattg actttaaaat tgtgtgtgtg 360
tgtgtgtgtg tgtgtttgcc acgtgacgtc gcctcatgag aacatgtatc actttggaga 420
tcatgtggat tctggtaatt ttgcatttac cgcactctgag tcttgtgact actcaacttg 480
cttttggt 489

<210> 5443
<211> 463
<212> DNA
<213> Glycine max

<400> 5443
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ttaggacctg acatctcata ccaaccaatt atacgtaaca agacaattat agttgctgtt 120
tgaatacctc acccactcca gtgtttcaca caattatggc ttttctataa tgaaacactc 180
ttgcctttta ccactctaatt ttcccttgag ttcttaagca attcaagaga ttatgggcac 240
aacaagaac aattcaccaa tatgtgtaag gtaaggctag acaaggaaaa gggtgaccaa 300
aaaaaggct gacaatgtgt ttaggctcaa atgaaggaaa taaaattcat aatttatgaa 360
attaagtaac aatgctttat gccaccaata tattacctta aagagagttt tttttttaag 420
tccttcaagc atgaaccatt cageccatt tttttttttt tta 463

<210> 5444
<211> 221
<212> DNA
<213> Glycine max

<400> 5444
gtgtgaaaag aattgaccat ttgaattttt cgataggggg cgaagggtgaa tgtttagcct 60
catgactata ttatgcgccc gaatgagaca tccgaggggc atgttataga tacgcgattt 120

cttctagaac ttttgagagt gctttccagc ctaagcacat gttttccacc cgcttgggac 180
ccacccttgc cattgaacga caagttttgt agagatgcag c 221

<210> 5445
<211> 805
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5445

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gcaatctagt aagccctcgt gccctgactt tggtgtcttg gctgttggtg ctaaaatatt 120
gaggggtggac ctgcttttgg gttgagaagc aaagtctata ctgtttgggg gaggaaagaa 180
tctccatttt tccactctag gactttctga acctttgaga ggctacttta cacagcatag 240
ttgctcttgc ctatcaccga agagtcctgc ctttcctttt aatggagggg cagtttattt 300
gcgatccaca tcaacttctaa tttgtgcact cctcccttta aaacccttcg atttagtgcc 360
tttcgttccg agatcctctt tcttaatcat tccttttctc taaggtagtc attccttgaa 420
catgagctcc ttccttcaca tattgccatt ggactacgtg ggagcaaatt cctagggttc 480
cattcagcac cccctcatg gatcaagagg gcccttttaa tgcgctgtcc tctcatcaca 540
aaatattccc ttctgttgct tcaaccgttg aatcctttcc tcctgaagggt tgcagtctgg 600
ccataatttg aggagatgaa tcatttcctt caatcctaag cgggggagga cgaatccctt 660
aactaatttt gttccctact cctttcaca ggttccttct ttgacagtat gtggaactat 720
acgttccatg gatcccgac catgttcttc ctgctgggag aaacttttat tcctttgttg 780
gaagaactcg gcgttttctc tctct 805

<210> 5446
<211> 414
<212> DNA
<213> Glycine max

<400> 5446

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gaataaaaga gggaaataag tggaactttg aagtgtatct cataagactt tcattcatca 120
aagttacaac aattgttaca catgcttcta tttatagact aggtagcttg cttgagaagc 180

tctcttgaga aaacttcatt gagaagcttc tttgagaaaa cttccttgag aagctagagc 240
 ttagctacac acacccctct cataactaag ctcacctcct tgagaagctt ccttaagaag 300
 attcctaaag aagctagagc ttatctacac atacctcttt aatagctaag ctcacctcct 360
 tgagatgaga agcttgaact tagctacaca cccctataa gctaaactca cccc 414

<210> 5447
 <211> 819
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5447

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 gcgactctat aggaaacccg ggtacctttc tctaattcac gccatagaga atcggataac 120
 cattcacagg ggcgttgaat accacgtacg agactggggc aatcctgacg atagccactc 180
 ttaacgcca aggattacat gccctctca acaggtggcc gtcttcctaa taggcccgga 240
 ccgaactatc tttccgactt gtgttcagcc ctaatggata aaggcacctg acgcgggggtt 300
 ttgtccttac tcggtgaagg agttgttgac accgtcctct agccccttct tagtacaata 360
 ctattgtgat gccgatatg caaatcgatt ctgcacaacc gccaataccg cttacgcaaa 420
 ttgcatttgg gcataataaa gtacatattg ggctctaatt cgcaataccc cctcttttac 480
 tattttataa acaattttca tgttgggaca ccattttttt aaccattttt ttacaattat 540
 aaggccccc tccattcctt tagcgggctaa caagaacttt taattccccc ccatcttccg 600
 aaaaacattt taaaataaaa cattttcttt tcaccacat ttgtttccaa caaaggaagg 660
 ttgccctcgg accaggggaa atcacacttt ctcccacacc ctttggcgga aacggaataa 720
 attcatataa acaatatggg tggggggata ccgttaacca atattctttt ttaaatatga 780
 ataaactttt ctcaataaaa cccgaaactc tctctttcg 819

<210> 5448
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 5448

agctctaact tgttttctat taagctcatt ttaacacatc cacaagtttt gaggtagatt 60
 ttttttttat agaaaattgt gttaagctta tttggataat ctcgggctaa aaccttactt 120
 tactaaactt agagccaatt taagactgtg ttagacgatc tttaatttga tcaatttcaa 180
 gcgctatgcc ttggctgttc ttgaaaaggt gtcttatttg acaaaagggt taaagttttc 240
 actaacaaca ttattcaact caggccttct agtatgtcct atatattgta gatcactaac 300
 tatgatgcag gtactaaagc ctacaaatta tatacattta acaatgggaa gattgctgtg 360
 aatgaaaatg ttttagttgg ggaagaaagc ctaca 395

<210> 5449
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 5449

tattacaaga atatccgatc atatttaaca agctgtggct tattaacaag cctgggtgcct 60
 taagtcctac attggcttct tctctctta ttaaactgg gcgggcacaa atcccctacc 120
 tggtaacaga ttttggtttt tatctgtcgt ggattcacct ttttactgcc aaggagggca 180
 tactaataca aattctacat tctcttttac ctctagaaa acacggaaca actcgggatcc 240
 gcctctgtac aagtacgtgt tacaatctgc aggggtgaagg ataaaagata aatagggtgg 300
 tttcatctta ctggttcccc atcataccca cttttggttc aatatttttt agatctaaaa 360

<210> 5450
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 5450

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 ttctagtatt taagcttgta ttgtaatttt ttttattaat attgttttat tattgaactt 120
 aaacaaaatt tgatatattac aagcataggt gtttgagcat ctgcccattg ttggttacat 180
 ggagggagag gattacatgg gtggggacct tctataaact aaatggaagc tattaagagg 240
 taccgggcgt gccctttcga tcaaggagaa attgaatgag ttatagatga atgttgatcat 300
 ctaatatgca tataaggagc ataagaatgt aaggccttta ctaaagcaaa cactttatat 360

tggtttact

370

<210> 5451
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5451

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gagatttaga acctacaatt ctgatttagg aaagataaca atcgactacg acacatttgt 120
gagcttcgac tcaaaagata tcaacaaaga gaaaaacatg actatgctaa ggattaacga 180
aaggagcaaa gtgatggatg attgatcaga agcactactg gatccagata accccaaata 240
tacggctgca cttcaactgc ataaagtata caaaagcttt cgtacaagaa caaagctagc 300
agattatata attcttattg aacaaagctg gtactttatt tattgtaatg agaacctctg 360
tccttcttta ctaaactctc catgagttnt aattttatct tttggtttta atacatatgt 420
agaagctctt acattntgcc gaactcaagc acaactctat atctttcttt cacattgaga 480
aacatg 486

<210> 5452
<211> 234
<212> DNA
<213> Glycine max

<400> 5452

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aaagctcatt acttattcaa acttcaaaac aacacatggg ataaccattg tggcatttca 120
tcaaacagtt ggtgtgcgca tggttaaaaca cgtttaaatg acggatgatg agccatttga 180
catgcaaatt tacaaaaaaa acaaggatag gtctacagcc acccatttgg gccca 234

<210> 5453
<211> 451
<212> DNA
<213> Glycine max

<400> 5453

tggaacatat aaactgaatc ctaggcccc ttaaggactt aatcaaaata tttgctggct 60

gatcattaga attaatgaac tcagtataa tttctttgga cagtagcttc cccgaataaa 120
gtgacagtca atctctatgt gcttgagcct ctcatggaag actggggttg aagcaatgtg 180
aagagcagcc tgattatcgt agtataactt catttgaccc actctgcaga atttcaactc 240
ttcaagaatt tgtttaccca cataagttcg catgtaacca taccataga tctgtattca 300
gcctttgcac tagatcgagc aacaacaatt cgcttcttgc ttttgcaaga aataatattt 360
cctcgaatgg agacagacac aatatcctga tgtggatctc ctatccatgg gatatccaac 420
ccagtgtgca tcacagtacc cacatatattg t 451

<210> 5454
<211> 459
<212> DNA
<213> Glycine max

<400> 5454
agcttccaca acatccaagc aaaacaacat tcagacagca caagctatca cagccaagcc 60
aaacagagca aaggccgaaa actctgccac aacaccaacc aaatcacagc ttttctcact 120
taaagacccc agtaacaatt cctacgatcc aattcggtta ccggttgatc gactccaaaa 180
ttttactgga agtatatagt acatgagcct acattgtgac cgctgggatc tactatcaaa 240
catccacaac tcattctgca ctactctttc cacagccaac cacacacaag catttttctg 300
caciaagcca aaattctgct gcacctattg tgacagcaaa attctgcgta agtgcagatt 360
tcgaaaatca cactttctct catccaatct tgcccaaatc aattcctaca agtcccaaat 420
catgtatcaa tcatgtctaa accaaagtca agctttaca 459

<210> 5455
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5455
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aagccaattt cactggcatg gaatttcttt tatgatgtat gccattcga gaagattgaa 120
ttaaattgct ccaaggttta tttgtcattc tcaagcatat accatcttca tatttgtcta 180

attcctcaca tatctctttg atttgttttc gaacatcagg aatagaaaga actgacttga 240
 ggtcttgatt gtcttggagg aaggtagtgt gaaattgttc ccaaactttt tgatattcag 300
 aaagattgtc aagttgattt gcacttggtt ttgaagcaac tccattttct tcttcatgac 360
 tnttccattg gtgcataata gtgttatcat cgtcatcaaa ttcgaacatg ctactctct 419

<210> 5456
 <211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5456

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 ggtttctaata gactcctcta cggcttccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcttgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtcgagtgtt gaggggaacaa ctctactga gtggatccac gggcgcccca acagacagct 240
 gtagggggggg ttaatatcca ttatttgga ggtaacttga caggtgtgag ggcctatctg 300
 tactgggaga tcgatctctc ccctaacctc ttggcggggtg tcgtcgaagg cacgaaccac 360
 cattgaactc ggctttaagt gggaagcatt gaatggtaat ttctccaaag tgctcttatg 420
 catcacgttt aaactggaac cattatcgat gagcactttt gctacgatat ggtccataca 480
 cttgatngat acgtgcaaag ctttattatg ccctctcccc t 521

<210> 5457
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5457

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 aaaattccat tggtttagct ttcatttcat tttatttggg ctttggttat tacttgtctc 120
 tttgtttcct tgtttgttgg ttgccatata gggaattgga aggaggattg gtgccatccc 180
 ttgaagaatt tgagttaaga agaaaggggc caaccacctt aagagctatt ggactaagaa 240
 gcactccaaa ttgagtgaat caccaaagag agaacaacca ccaaaattga ggactgttct 300

gtaattttgt aatttgcaat ttacttacct tcattgcttt caagttttgt aacaaaaagg 360
 cgtttcattg gaagtgtgtt gggagcctcc aattgggttac caaacttcca tttgtgtgta 420
 ataatttttag gcaatntttc cttangatag tgagtgtttt gttgggaacc ttgaatgtgg 480
 tca 483

<210> 5458
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 5458

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 aaaaattgca tcccattttg atacaattaa tctttcttta atcactttgg tttgttggtg 120
 tagtctttca ttatgaaaaa aatctgaact acatagataa caattagaaa aagtgggtgat 180
 tgtggcaatg atcactttta aatagtcaat aaaaaaaaaat cccttaaact cccacatcta 240
 attctcttgg accatgaaaa aacatgacag ttaaaaaataa aacaatttga atatgtgatc 300
 cctggactat attaatgatc taatgattaa attaagtta tgattttctt ttatgtgtag 360
 aaatcaaata taatattaaa aatttataat aactcacaca ctctactcaa tcaaactaat 420
 aagatttttt aaaagattaa atattaatga tgataagaga aaattatgta tttcttttta 480
 tttattctcc atgaagataa gggatttgat aacagacgaa atccccctta tcatacataa 540
 catcaacatt atatcaagga aaaaaaaact atatgaattt caataa 586

<210> 5459
 <211> 564
 <212> DNA
 <213> Glycine max

<400> 5459

tcccctgtag taattaaagc taatagattg ccaatcttat cctcaccctt tttcttttag 60
 gcaaataatta ttcaatgcac ttaggactta taaggatatt gatttaaaaa tttaaagtaa 120
 aaatattttt attagaaaat aaaaaattat attatttata atttttttct ttctattat 180
 ttatacaata aatatatata tattttttatt ttaatttctt aaccaatgct gcaaaggat 240
 tagttaggat aaaacttgct taaattacag gcataccac tctctcactc aagttaaacc 300

tgcttaaatt ataggataaa acttctagag aagggtataa aatataatat attcattcaa 360
gatttaaatt aagtatatta atttttttgg ttcagatttt ttttatattc taaatgaaat 420
aaaacatttc acttttttta tataattcta aactatctat gataataaat catcaatatt 480
ttaactagaa taatacatgt gatataattg gaaatacatc ttatctcctt aatatgtggt 540
tagaaattga ttcctaatat gaat 564

<210> 5460
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5460

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tttttaaaag attagaattc tgatcttttt tatatcttta tttttcttc aaattatatt 120
ccttgagatg ttatattatt tttattttat caaaatgaa attcatgttt tcaacggaaa 180
ataaaatgaa attcatgttt ttcttaccac cacattttca ttttatccaa aatgagggtt 240
gtgatttcaa ttgaaaatac ttcccgctct tggttcatct ggacaaaata tttttaccga 300
aaatgttttc aaaaattcca accaaacgca tttttatcac cattttctat ttatagttaa 360
aataaaaata agaaacaatc aaaccaaaca tgctaacacg ttacattatc ctccatgaaa 420
aatttaatat ttttggtggt gttacaatga gaagttaat tttt 464

<210> 5461
<211> 453
<212> DNA
<213> Glycine max
<400> 5461

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ttacagaaat caaaacatag tgggttgatg acagagcatc ctgcagaatt ctctcctttt 120
tgaagtccaa aaaggaacag ttggaggggt ctggtaacac ccatctattg aaatttgaaa 180
gtactaaagt tcattctttt accagtggaa gttatactac aagttttaag acgaggttca 240
caatggaacc cctaattcag gaggatcagc caaggctttt catcataggt tcacaacatc 300
tagatttgac aactctggta gggatggatt ggggaagtta taactggtgg tagctttctt 360

gattatacta tatctgtaaa ccaatataat caccttcatt ttgaagttct taaatttata 420
 ttcattctct tcttttcttt tattctttct ata 453

<210> 5462
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5462

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 cgctctatcc acaaaagaaa cagtgcgtgt tgaatttgat cattgtattg ctagattttt 120
 gtagttatat gaattttctt ttgaattgg ttcaatgagt gcatgcatac attttgttag 180
 atttttatgg gactagactt acgctcatga gacttataat tttctgactt ttttatttgc 240
 ttttggctct ttgccttttg ccttttgatt tcgttactta ttaaaacatt gctggttggt 300
 gccattggag tttgtgagaa gacttcgtac tagtattttt ttgagtgcgtg ttattttact 360
 ttattattgc taatgaataa cagcttttga atgtattaag gagtaataat acattagtat 420
 tatctgatac actattgata atctttaaac caaaataaat taagagcaat tggttagttt 480
 attaaattat aaactgaaaa aatggtttac 510

<210> 5463
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 5463

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 gcctattcct ccaataacta gatatctatt gtcccttctc cctctctccc tctctgtgtt 120
 aatgtcaaaa ccagtacatc atgataaata ctaattcatc aaatacaaat agttatagca 180
 cacaaaattt attcagtgcc ctctaggttg acttatcttg tatgaatgaa tattcagtg 240
 caagagccta gtcaccccaa atattcaaac tttaatcttt cgtaatatagaa gttagaaaca 300
 ggggttattgt ccttcgtaat tctcatcatg gggttactttt ttcacctcaa cgggttatttt 360
 ttttgtctca attttaagtg ctgggtgcgag tacatcaact gcaaaccgga gtaagttaat 420

aatgaccaat a

431

<210> 5464
<211> 517
<212> DNA
<213> Glycine max

<400> 5464

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caacaagaat caaaccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaaaaga atcaaggatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacgtgca catgatattg acccaaaata ttaaactgaa aatccgacga 360
aactaacaac attaacaaat taacacaact aacaaattaa caaaaccaac aaaactagca 420
aaaccaaaga aactccccc cccatactta aacaacacat tgtcctcaat gtagcacaat 480
taaaagatta aaaacaatta aatcatcaaa gagaatc 517

<210> 5465
<211> 478
<212> DNA
<213> Glycine max

<400> 5465

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tggtgaagaa aaatgtggca ttacctagg gtgaaaaaca agagcaagcc ttgcttttc 120
tcaaagaaaa gcttactaag gcacttggtc tagctctttc tgacttttct aaaacttttg 180
agctagaatg tgaagcctct ggagtgaggag ttggagctgt attggttaca ggtgggcacc 240
ctattgctta ttttagtgaa aaaattcata gtgccaccct caactacccc acctatgata 300
aagagcttta tgccttaata agagccctcc aaacttggga acattacctt tgttccaagg 360
aatacgtcac ccatagtgat catcaatcac ttaagtacat tagagggcca agcaagttaa 420
acaaaaggca tgcaaatgg gtagagtacc tagagcaatt tccatatggt atcaata 478

<210> 5466

<211> 476
 <212> DNA
 <213> Glycine max

<400> 5466

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agcttcttgc tacattatgg tcaatgagct gcagaatgag gggaaaaagc aattttcctg 60
ttataaaaaa tatattagcc aattttgatg atgctttctg agaattgaga ggcttgccctc 120
ctaaaaggga ttgggatcat gctatcattt tgaagagggc tcaaattcct aatatttgcc 180
cccacatgta tatgcattat caaaagaatg agatagagaa aattgtgaat gatatgcttt 240
gtgctgtaag gcccacact aaccctttca gtagccctgt tatacttgctc aagaagtatt 300
gtgtgtggag attttgtata gactatcagg ccatagacaa gtaagcaccg gataaatttc 360
ctattcccat aatttatgaa ctactaaatg tattgcgtga tgcactgatt tttgtaagat 420
gaactactct tttgctaaca taaatacact cttaatggctc ttgaacagta taagac 476
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<210> 5467
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5467

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caaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc gcaagactct 120
cattcatcga agttacaaca agtggttacac atgcttctat ttatagacta cgtatcttcc 180
ttgagaagct gtcttgagaa aacttccttg agaggcttct ttgagaaaac tttcttgaga 240
agctagagct taactacaca cagcctgta ataactaagc tcacctcctt gagaagcttc 300
cttggaaga ttctgaaga agctagagct tacctacaca cacccttat aatagctaag 360
ctcaccgca tgccccaata catgaaaata tataaaaaag tgctattac agagactact 420
cataatgcct tgaaatacaa cgctaaaacc ctatactact agaatggccn aaataccagg 480
cccaaagaa gg 492
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<210> 5468
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 5468

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ataattaa aa ccaaaactta acctacaaat ccctcatgta aggctaagtt tcaatcctgc 120
ttcaatcaag ttctaaggca ataatacatt tcctaattgct aaagtcacct aattgtgcac 180
acaaatgggt gatcagacca aaagcataca aacattaagc attgaaggga gcattgaaca 240
cagaaaacat aatcaattag atattaggta tttacatcag ctgttcatta aaaatcccca 300
aatagggtgt ttagccaacc attaaaaaga aaccctaaca atgaatgaga ttaaaagcag 360
agaatgatag ttccttacac aagaaggggg attcctcctc ctcttctcag tatctcacac 420
tcactctcta ctcaataatc tctc 444

<210> 5469

<211> 477

<212> DNA

<213> Glycine max

<400> 5469

ttgagccaaa atcctgactc accataaacc ttgaccacagg gtgagaatgt caatccttac 60
cctcggaagc aaaaaagaat agaagggaaa tttccaatca aagaaaagag aaggaaaatt 120
tccaatgaaa gaggaaaaag aaaagaaagg aaattcccaa tcaaagagtg ggagaaggaa 180
aaaagaaaag gaagaaaatt cccaaccaa gaatgggaga aagtaaaaaa ggaaggaagc 240
tcctggtcaa agaaaccaga agaaatgtgc agagagggtc ttggaccaga cgatatctga 300
acagtacaga attgtcacta aatgaacaaa aaggaaggaa aggaaaccac gacctaaat 360
gggtcttctcc cttaattac caacaaaat cccgtgcgct agcgaccctt ttttctcgcc 420
ccgcactaaa aaaaaaaaca gaaaaaggaa aagcccagga aaatcaaaag ccaaaaa 477

<210> 5470

<211> 806

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5470

ccccctgatg agtctcttga gaaccctctn aaatcgtnag cttgtgaaaa gaaaaagggt 60

gctttctgca taaggtggca ttccacattt tttgtttgac acctggccga caaattcaaa 120
catagtgggt ggattactga ggagcctgca gaattatttt ctttctgaag aaccaaaaag 180
aacagttgga gggcgctggtg tacacccatc tattgaaatt ttaaagtact aaagttgata 240
cattaccagg ggggagttat tcttcaaatt accatataac gttcacaatg gaaccctaa 300
ttcacgatga tgaaccgaag aaattaataa aatgcacact tcctcttaca ggtgcttggg 360
cctgtgggga tagattgttg aaaaaattac aggagctatt ttccctgatt atacaacggt 420
cgccctacaa aataaaaacc ccccatTTtg acacttcctt aaacaaaaat aaaataaaat 480
aggctgagtt tatatacttt ttactgcgca cgcgcccaatt ttaaaccgct ctcaatcttt 540
aatccctcc caaagcgcaa gcggggctct ctttataatc ctttcaatta atctccctc 600
ttactccctt caanaatcca ctcacccctt ttttaacctt ctctttgaga aatcaatggt 660
ctacaaaata atcggcctga catgatcgaa aaactcctaa cgtgtaactc ttggtgtcat 720
tctcgccata aaagcctat acataccttg ttttaacatc ttccaattgg tactaccag 780
gactcgaaat cacaaggat atttcc 806

<210> 5471
<211> 372
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5471

gctttgaaan ataataactt gaattttaaa ataccattt tctctcccc tttggcaaca 60
tcaaaaaggc caaagtgcgt gaaacatgaa taatttaatc atacacaaag cataatttgt 120
aaaacaaaca tataagattc taaaaacata cataaagcat aatttttaata aaaccaaatt 180
gagatgcaaa ccacttagtc atatatcaca aaataaccaa gtctaagtat aaaacataag 240
catctaagtg ccaaataaag acaccaagat cagtcataat taactaagta ccaaatacct 300
aaaacataac taatgttcac agaataaata aataacataa tgggtgtaaatt cattcacaaa 360
acataataaa ag 372

<210> 5472
<211> 514
<212> DNA
<213> Glycine max

<400> 5472

ctcagcttgc attcctctct tcccttaaac ttcttttatt tattgctatt tatcttttgc 60
tttaaagaag tttattttga attgtctttt gagtaattca tgtaagggt gcattgttaa 120
tccaaaaaga aagagtgata gttcaattgg ggaatagtct ttgcatctta attcaacccc 180
cctttttctt aaggtaactg aggccatttg tcccacatcc tattcttgat aactcacttc 240
tctctaaaaa gacaaaatga ggtcacatga acgtctatat ttttacttga aaacacagtc 300
aatcaaatgc ctttttattt ttttattttg aaacttattt tgaaacttat ttgctttgaa 360
ctttactcgc tgttttacga cccccccacc aacgtgcaag acgagtaatc tctgattgaa 420
cagtcttaga agtcaacact caagaacgca agtcgcttga gccaacagaa ccatggcttt 480
gccccacatt ccagtgaag ttgaataacc aaca 514

<210> 5473

<211> 414

<212> DNA

<213> Glycine max

<400> 5473

agctttctta gtacaaaatg catattcttt ttgtgattgg tatttgaata taattcattg 60
tatacatacc tgaattggag tagtatctta gtagtttttt ggggtgaacat tagaagtaaa 120
tgtatggata ggtcatcac agaggactta ggttctgttt ttttttttgt atatgttttg 180
tgttgatgta attatctctc attgcacaac tagtacatgt atatgtatca tttttttcta 240
aatacatatc aatttgctat aaaaaggttt gtttttaata agcaaaaatg aaagctatgc 300
tctaacccaa atacacaatc cacatatttg ctactttaca aagtgaaaaa tgtattattt 360
tgataaatt ttgtgttttg ataaaaaaa attcatgggt taaaaaaaaa acta 414

<210> 5474

<211> 455

<212> DNA

<213> Glycine max

<400> 5474

ttgagccaaa atcctgattc accataaacc ttgaccagg gtgagaatgt caatccttac 60
cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120

tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
gcaaaaaaag aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
gaaaggaaaa ttccaatca aagaatggga gaaagtaaaa aaggaagaag aagaaggaaa 300
gaaagctcct gatcagggat cgaaggaaaa acagaagata tgtgcagaga ggtctttgga 360
ccggacaata tctgaacaat acagaattgt caccaaata acaaaaaaga aggaaaggaa 420
accacgacct aaaatggtct tctccctttg attac 455

<210> 5475
<211> 323
<212> DNA
<213> Glycine max

<400> 5475

agcttgatgt gagaaagcgt ggaagagtca gtcttcctac ttttgtttgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120
attgccc aaa accaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180
acctgtgacg tacctaagca ggcgagctcc tggcagtcaa ccaataaaaag aataaagtcc 240
acaaagcaag gaggcttgtg tggcggtg cccactatga atcttgagtg gtatctggaa 300
aatggcctct ggtaatcgat tac 323

<210> 5476
<211> 505
<212> DNA
<213> Glycine max

<400> 5476

ttgcaatcac taagagactc ttttaacaac gatagactaa gacttagctt tcttattgat 60
ctttggtttc ttggtcttga tttggactta aaataaaaact tgtgtttctt ttgtcttggc 120
atcatcaaga ccatcataca catacattca caaacatcgc tatattgtcg taacaaccca 180
ttgtcttttg aaccatggat cctccact caagttttgg tgttatgcat tgtaaactgc 240
aacgtgtctc atcaatcgga tgccctctct cactactaac gaaaagtctc cattagaagt 300
cttgtttcat cgtccatcaa attatagtaa actaaaagct tttggttacc tttgttttcc 360
ttggttcact ccatatacaa ctaacaaact tcagaccaag tccgtaccat gtgtttctta 420

ggttacaatc ttactcaaag tgcatatctt ttgttatgat ctttcagagt ctaagttgtc 480
acctcccgca tgttgaatca ttgaa 505

<210> 5477
<211> 440
<212> DNA
<213> Glycine max

<400> 5477
agctatagat attagctgaa agactcatgg atgactttat ctctaaaatg caccctgatg 60
aaagagcccc tctcacttga agcgtggaat tgtaccttat gttgaaattt gactttttac 120
atagagtaaa gtggggacga ggtcaaaactt ttgaccagtg gccgggcaag ctttgatacc 180
aaaattaaag aaaatggttt acagaaattg tttgttaggc agcataaatg ttttagtatt 240
tacaaatcct atttacaaaa tcagagtact tctaacttaa cacaaataca ataacttgta 300
tagtaatcag taggcttaat taattatact tttggctcct ttgtgatagt caatgtgtga 360
tttttgtcct cttataattc tttgcagcaa tcaaatcctc cattgtttcc aattaaaaat 420
acttttggct cctttatgat 440

<210> 5478
<211> 481
<212> DNA
<213> Glycine max

<400> 5478
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attagctctg ttgctttttt ggggtcttca gctttatttt tccccctgca gaagcatcta 120
gcaatttctt ggtttgtggt atcagcccat ctataaacat attcaattga attgtcttgg 180
aaaacctatg ggtgggagtt cttctcaata aacctctgaa cctctccaat gcttcactca 240
tagattcatc acggaactga tgaaatgaag agattacagc tttcccttcc gcagtcttgg 300
actctgggaa gtattttctt agaaactttt caacaacttt ttcccaagtt ttcagactgt 360
tacccttaaa taagtgaagc cacctcattt gctctcctgc caatgagaat gagaatatgc 420
tgagtcta at agccttatct ggcacaccgg caatcttaac actgttgc at attttaatga 480
a 481

<210> 5479
 <211> 571
 <212> DNA
 <213> Glycine max

<400> 5479

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agcttgacta tatacctctt ccattgtgct aagcatgcta tttacaacat cttttcgtga   60
agaaagactg aaccaccaag gaaacaattc gaaacacctg aaagcaaaac tcgataaagg  120
aatcatgtt accaagcaat acataaattg gctacatagt gtataaacat gtatctatta  180
ggaatggatg ctcccatgtt aaaattccat attatcttgc catgtaaaag ttttgtctca  240
atgtctccat agacatttgt gtgagctcta ttaaatttgc tgaatatttt caaagagact  300
ataaataagt aaaagatttc ttagaaattg ggcttaaggc cttagtgtca ccacaatgaa  360
gacagttgag ggtttgtgaa agcatagtct cccaagtcaa gaggccttta taccaactat  420
aaataaagtg acaactatat tggttctccc accaatttct gccagggag aatacaaagt  480
tatataggct gcctaataat tctaattctaa taataccagc aaaaagaaac ctgtttgcat  540
tcctaataata ataaaaccag gcaactaatt t                                     571
  
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<210> 5480
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 5480

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tattgtggct tgataacctg cgaaaaaatg ataaaatggt atcattatat tactcagaac   60
aactcttcta ctttatgcta atactaaaga cattaattgc attaaggaaa ttatcccctc  120
taatttggca cgtgtatgaa agaataatta caatgtacgt aatggaaaca tgcataaaat  180
gggttaaaga attcatacaa ccttgggttt gtttcaattg ataattacaa attcagagac  240
gtccttacia attcagatga taattacaat gtgccgtaat aaagccgtcg taagttcata  300
agctgatcct ggctgggtcaa cctgcatgag atcgtactag atgttatcat cgattaca   358
  
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<210> 5481
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 5481

tattgaatat aactttttct aatgtctcgc tcacgaaatt ataatcgtca acccgtattt 60
cttttgtttt tccccccggc catctcttca caacgggaaa attttacagt cacaatcccc 120
cattcctcac ccggccatct tttttttctc cctccctt 158

<210> 5482

<211> 637

<212> DNA

<213> Glycine max

<400> 5482

gcttgtctta agttctgaga gacaaaagga gtcattgtact tatgaagatc tcttaccaag 60
tttatgtagt attttgctac cttttgtcct gtctcatacc tatctgcttt gtattggatc 120
atccacaggt tccccgctct atgagggaaa gcagtttctg ttgatggatt ctacgccatt 180
cttccaccat aagggttgaa atacattact gctttctcta attcaatcat cttcttccaa 240
atccctccca accctccttg ggtattggtc tcttcacata gtcagatttc cttttcaagt 300
acttgagaga ccaaggttgt ctctctagca aaatctcaac tgggggttgca atgtccatgt 360
tgtacaaaa cagcacggat tgaagccagc ttgtttcgat gcattcagat tgcttcaacc 420
ccaattaagg agacctctcc tccatgacag aaaacagagt tttggagtcg ctgaggaaga 480
gagctatgaa ggtagcccct cactgtcttt atgatcttct gttggagata attctgttcg 540
agacattggt gatcaactaa tatggacact tcttcaaatt taagtcttga ttcacacgt 600
tgctggagac tattaacccc ttttggtggt ctcaact 637

<210> 5483

<211> 483

<212> DNA

<213> Glycine max

<400> 5483

tctatccatg gtgggtaagc attgatgtca agcttctacc atggatgggt aaacattggt 60
gtgttgcttc tgcccttatg gtgggtaagc attcaaata tgtgttttgc ttctgtcttg 120
agtgggtaag caccatgttt agcttctgct cttgatgggt aagctttggt gattctgcct 180
ataaggtggt taagcacttg ttgttggttc gcttctgtct tgagtgggta agcatcatgt 240

ttggcttatg ctctggatgg ttaggctttg ttgcttctac ctatatgatg gttaagtact 300
 tgttgttggc ttgcttctat cttgagtggg taagcatcat gcgtagcttc tgctcttgat 360
 gattaagttt ggtttgcttc taccttttat gtgggtaaat ggttaagcat tgtgttggtg 420
 cttctgctta atgggtaagc atattccaaa tgtctttgaa tgttttcagt cattgtcaat 480
 ctg 483

<210> 5484
 <211> 543
 <212> DNA
 <213> Glycine max

<400> 5484

agcttctttt atatatatat atatatatat atatatatat atatatatat atcgaatggt 60
 aattagtatc cttagagtat taattaagga actaaaggag aaagattttc ttaaaaaata 120
 tacaaaatta ttttatttat gacttttttt acttttatta tttctattat aaatattttt 180
 tcatttagtg tcctaagggt agcaagacca tatatatata tattcctttg gcggatcgaa 240
 ataaataaaa aatcttttga gccttggtga cgagattcta gagggtaatt tgaagaaaaa 300
 gatcattgta aacagttgta gcatttggtg ctagagaaat gattatttgg actcaccagg 360
 ttcactagag cagacttggc tttaactttt tcagacagct tcaaattaat tccatttttc 420
 attatcaaat tgaataaagc acatgatcaa atctttcaca gtttttattt ttattagata 480
 tatgtttcac agttttaatt aaaaaaatca acatgtcatt atttattaga agactctgat 540
 gac 543

<210> 5485
 <211> 585
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5485

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 atggcttttg ttactgtcaa ctatttgagg ttcaaatgaa tcagggtcca cagatctttt 120
 gtcatttggt tcaatagttc atttcatttg tatataactt ccgtgtgatt taatcatgat 180

gtgatacatg tgcatttgaa taaattctta taagcttggt caactcattt gaagtttttg 240
 tttgtttgaa gtcctggaat cataaaattc atgtttataa tactattgtc tggctcaatg 300
 cagtgcatac agaggactat acattctcaa ctggatctat cgctacttta ctgagcccca 360
 ctttgtccat tggataagta tgattctctc ttattgtggt ttatgggtac tatttttttt 420
 gcttctacgc ttattataat tattaagtaa ctacactctg cattattcac tactatgtct 480
 tgtggaacct tttcatcgca tatttttaag ttcataactn taaaattctt catacctgag 540
 atgcatttgt gacgttggtc aaaatgtttt tcccttatca taaa 585

<210> 5486
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5486

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 gggcaagatt ggatgaaggg aaagggtggt ttctaaatct gcatattgtg cagatttttg 120
 ctgtgaaatt gagcagcacg attttgcaca actgcataaa aatactangc atttgctggt 180
 tgcggaaaga gcattgcaga atgagttctg gatgtttgct agtagatccc aacgggcaat 240
 atgtatgctt atgtactaga gacttccact caaaatttgg agtcgatcca acgggttaacg 300
 aattggaacg aaggaatcgt tactgggggtc tttaagtgag aaaagctgtg attttggttg 360
 gtgttttggc agagatttct gcctttgctc tggtttcttg gctgagatag tttgcgctgc 420
 tcgaatgttg cactactttg a 441

<210> 5487
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 5487

tgtgcgaatc aaatcactcc tgcatttcat ctctaccatg ctttttctt tctttaccca 60
 ctctcacgt ttggtttttt agggaaaaac accataacta aacgcgccac aagacatccc 120
 tatcgacca gatccaaatc tagaacgatg ggtgatcaag aggagacaca ggaacagatg 180
 aaagccgaca tgtcggctct gaaagaacaa atggcttcca tgatggaagc catgttaggg 240

atgaggcagc tcatggaaaa gaatgtggcc accgctgccg ctgtcagttc ggctgccgaa 300
gcagacccaa ctctcttagc aactgcgcac catcctccct caaacatagt aggacgcgga 360
agggacacac tggggcacga tggcagccct cacctgggat acaaccgagc ggcttaccct 420
tatggattgc cgcccaacta ctcaccaccc gtcttgcaag 460

<210> 5488
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5488

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tttgagtatg tagcttttaa gataatcgga attataactt tctaacttat taaaaaatga 120
ggatacttta ataaatcttt gattagaatt tataataagc aaatattttt taatatacat 180
atatatatat atatatatat atatgaagaa tttaattat gatataagat tctctaacta 240
ttgataattt gttttaaaga atattaagat gtaatctaca tataaagata aatatagaag 300
gtcgaaagag gtaaactatt aagtatatta aatatgtaaa taaagataaa aagagaatag 360
tttgaaatag ttgatagaaa aaatagttga ctagtttttag aaataggctg tgaaatgtat 420
gtgtgaaatg cntctccnac gatgagaaga gagagag 457

<210> 5489
<211> 464
<212> DNA
<213> Glycine max

<400> 5489

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccctttga gcctattttc 60
ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaaccatg atatcacctt 120
acccttaagg aattatggag ctttgggaatt gttttgggaa taagctggga ataagtgtgt 180
gtgggggggg gggggggccat ggatccctcc cactcaagtt ttggtgttat gcattgtaaa 240
tcgcaacgtg tctcatcaat cggatgcctt ctctcacact aaacgaaaag tcttcattag 300
aagtcttggt tcatcgtcca tcaaattata ggtaactaaa agcctttggg tatctttggt 360

ttccttgggt cactccatat acaactaaca aacttcagac caagtccgta ccatgtgttt 420
 ttaagttaca tcttactcaa aggcatatct tttgttatga tctt 464

<210> 5490
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5490

agcttaaagt atgccccgagt cattcatccc tatgagatgt tgntgaagta ttggcgatca 60
 gaattgccat tccttggatt ataaggttga accaagctca tgctcttaca aaaagggttca 120
 tcaagtcaag ttgaaatatg gaagtaaccg tctttcaaaa ttggggcaaa agatgaatcg 180
 agtcacatca ctgcttcgtc tactgccaaa catatttagg attattgatg tccttggttac 240
 ttccagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa ttgattcaac 300
 cccatatctt gcgtaaaaat gccattcctt ggattatagg gttgaaccaa gtcacatgctc 360
 ttacaaaaag gttcatcaag tcaagttgaa atatggaagt aaccgtcttg caaaattggg 420
 gcaaaagatg aatcgagtca catcactgct tcgtctactg gcaaacatat tt 472

<210> 5491
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 5491

ttgagccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
 aacgacacgc tcgaaattga atgttgaagc tctgagctaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaag 180
 ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgatcat 240
 atatcgagac gctcgaaatt gaatgttga gctctgagcc aattcaaacg acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat tgaatgttga 360
 agctctgagc caattcaaac gacaataact ttttactcgg atgtctg 407

<210> 5492
 <211> 438

<212> DNA
<213> Glycine max

<400> 5492

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agcttccact ccagttccca ttcgagtacc taacgggtgt gattttcaaa cgttaaaaac 60
cagaatacac aataccctta agctaaccga caaacaattt ttggatgaaa tttactaacg 120
acagcctttc acgtatgcag gtaatcaatt tcggttttaa tgtatgcaac tgaaagatga 180
tgctgatgtt aacacaatgt taatgtgtaa tcatgaattt ttgtttgttg atccgattga 240
gtttttatgt agcattgcta gaacccaga tggcatttta aatttacttg aatctattat 300
gaaccctact catgatgcc tgctatatta caatgggagg tggaacatgt cacgcaaaaa 360
tgagtttggt ggttactcat tcgtaggaaa aaatccccaa aactttgaca ttcccactgg 420
atgtaccatg gatgaact 438
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<210> 5493
<211> 425
<212> DNA
<213> Glycine max

<400> 5493

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ttatgttttc cctcccgtgg atgtagcctt gatcaaaggt gaaccatgta aatctgtgtg 60
ttctttctct tttttcttct ctttcacctt gctgcacaat tatgtgtgta tgacatttct 120
attctgttgc atctcctgct gctgttcttg tttgttcttc atcacttcca caacaaactg 180
gtatcaagag ctcaagttgc gatcaaggga attcaagatt cttgtctgaa tacaagatc 240
aagctatggg agtcttgttt ctggttcttc cactgcttca ttgtgatcaa taacactcaa 300
gaaatcatgt gaaacacaat caggattgaa aaattcaatg gaaagaacag cttcaatctg 360
tggcgcatca aaaagcatgc tttgttgaag gaacaacgtg tttgggctcc tgttgcgttt 420
tcatc 425
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<210> 5494
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5494

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 ttttaatttt taaatgacat ttctaattta ctaaggcaat aataatataa catttctgtg 120
 gaagcaaagc taccatgatg attcaccaaa atgttttgat gatgccaaag ctcaaagagt 180
 tgtttcaaga ttaaagaatc aagcattcaa gattccactc aaagattcaa gaatcaaatg 240
 aagaaatcaa gaagcatcaa gccaaagtaa agtaggtggt aaaaagtatt tttcaaaaaa 300
 catcaaatac cacacttttt gttttaaaaa ggattttctg aaatcttcta agttaccaga 360
 gtntttactc tc 372

<210> 5495
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 5495

ttgcagattt ggcccttcgcc agtgaaagga tcaatgtggg tccgaaaaga ggcaaatttg 60
 atcatcctac taggacgact gaaaaaactg gggcaaataa agaggggtgaa gatgaaggag 120
 aaacccatgc tgtgattgcc attcctgtac ggccaagttt gccaccaaac ccaacaatgt 180
 cattactcag tcaataacaa acttcctcct taccaccac ccaattatcc acaaaggcca 240
 tccctaaatc aaccacaaag cctgtctatc gcacttccaa tgacgaacac caccttttagc 300
 acaaaccaaa aacaccaacc aagaagttaa ttttgcagcg agaaagcctg tagaattcac 360
 cccaattcca gtatcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
 cat 423

<210> 5496
 <211> 1160
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5496

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 ccccccata gactcgaagc atgcccgcct cgaattttgg ttgagaacaa ccattcgatg 180
 ctattttatt actgcacatt gtaaagacat ctgatctcct gtcttagaat gcggattgaa 240

cggagataga agtaggcttg ttctacacct ctgacaatct atgaagcaag agtcttctgc 300
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 aagcgggtttc cgcatgttta tgccngata gcgaggcata ttgcccgcaa tgcgaatccc 420
 gggattgttc tgcattgcgt cgagctccca cgagactata gatgtatggg atctatccac 480
 cttatgagga catatctcca cccatgttct ccctgggttt tcatcacggc ccagcgatac 540
 aaacaaaaga aacgcgcctt gggagccgga taaaccgcg cttctggagg tgtatcaaac 600
 aaccgcgcaa tgtacttctt tcgcgtgtgg tatgaagcat aaacaaacat attggccctt 660
 tgcgtcctcg gttataacct ccccttctag actacgtttc tggcgccgct gccaccacaa 720
 tagtttctac ttggccctcg tggcaatcgc gagaacgcct cttcaccatg aatagaatgt 780
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 caaccatcca tccccctcag tttggcgcg tccgatcctc cttcggttgc ttctctgggt 900
 taacagctct agcaatatct ttttttctt gctgcacatc gactgaacac cctaacacct 960
 ctcccttggg aaggcttacc acacaaccaa gtggtagcgt cctcctctat ttattattag 1020
 accgcccgtg tacacctcgt ctccacgcta aaaaaacaaa cctacactcc cttgcctgng 1080
 tcatttatcc tttccccccg gatgccgcat aactccatcc tccggtagag aagtttccac 1140
 atacttactg gacacctgcc 1160

<210> 5497
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 5497
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 gatcgctaatt tctgattaat atcatggtca gaaaaaaaaag ttaatcttgt attttattat 180
 gacaggaaat aggaatgttt ttataccata gaagcattaa tatgcctttt catttggtga 240
 tgaccatatt gtttcattaa ttcatgcca tattccatgt actattaatt accgatccaa 300
 acatttatgt cttaagacct atacaatatt taatgacaat caatttgcaa acatg 355

<210> 5498
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 5498

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 taatagctaa gctcaccttc ttgagatgag aagctagagc ttagctacac acccctataa 120
 taactaagct cacccttatg ccagaaaaaa catgaaaata caaaaaaagt ccttactaca 180
 aagactactc aaaaggcccc gaaatacaag gctaaaacct tatactacta taatggccaa 240
 aatacaaggc ctaaacgaag aaaaaaccta ttctaattatt taaaagata agcgggctca 300
 tacttagccc atgggctcga aatctaccct aaggctcatg ataaccctaa ggcctttcct 360
 tggattatct ggccc 375

<210> 5499
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 5499

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 atcttctacc ttctgcaaaa gaacaaagga ctaaccgcct gagatatctt ttgtttcccc 180
 ttcacaaagt ttcaatggac taaccgcctg agaactttgt cttaacacat tggagggtac 240
 atcctttgtg gtacaagttg aggggtacatc tactcgggtt gttatgactg agaacacaag 300
 aggggtgcac tcttgtggat caattcaagt gaagggtaca tccacttggg tgttcaaaga 360
 gaacaaggga cgggtacattc cttgtggatc tttg 394

<210> 5500
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 5500

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 gctatgatca actttaattt atggctgatt caagaccgac tatctgacct atcacttgct 120

gggacgatcc ctaatcctac ggatgatttt tacgaccaca taaaaggagg ttgtcgtatt 180
 atacctcctg atttcagacg caacggatgt tgccacaaag acaacagtga tatttttttt 240
 attgcgataa agacaccaat gatttttatg gacattttca aagaaaccca tgtggcatcc 300
 ttaatata 308

<210> 5501
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 5501
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 tgtcatcggtt tttttcgtca ttgagggtgcc acttgagctg ccaagttctc cacctttggg 120
 cgtattcttt gaaagatccg tgcccccttt tttgcacata ttttgtagtt gcatcctatc 180
 cgaagccatt ataccgacac tgcctaacga aggcaaccat taggtcctcc caggaataaaa 240
 ctcgggaagg ttccaagtta gtgtatcagg taacaactac ccagtaaga ctttcttgga 300
 aggaatgtat caacaattcc tcatcttttg cgtatgcccc catctttcga caatacatct 360
 ttagatgggtt cttggggcaa gtaatccct tgtact 396

<210> 5502
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 5502
 agcttgctta agaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60
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 aagctcacc ccatgacgaa aaacatgaaa ataacaaaga aaagtcctta ttacaaagac 180
 aactcaaaat tccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240
 atggcctaga cgaaggaaaa acctattcta atatttaca agataagcgg gctcatactt 300
 agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct ttccttgat 360
 ctctagccaa tctaattgga gtc 383

<210> 5503
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 5503

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 tgtgagtggc ccagcccgct cagcgatctg ggatctagct ccgagttcat gagcctagca 120
 cgatgctaga tctcacgact cgagatcaag atttcagact ccagattgcc gaatgaagaa 180
 cagactcact catgataacg cctaactttt ttctcccaac attgaatacc acatgagttt 240
 ctgacgaaat ctttaccat gagcttttac tctctactaa tcgatcacca tactgggtga 300
 gtgggctacc cggaacgaga tgacgcttga aaaagttttc aaactgaatt tacaatgctc 360
 cactcatttt c 371

<210> 5504
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 5504

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 ttatatagtg ggagaatagt gtctatcaga gttttaattt tttgtactgt tttaattaca 120
 aagacttcat ttattttttt ttaaaaaaaaaa gttgattcat ggattattttt aaaattcaaa 180
 agtaaagat ttccactcat aataccaagg aataatagta aatgaaggaa atattttattc 240
 tctattttcta taattaactt tagaaaaaat ttattaatta aactagctat acctgttatt 300
 attgttttga cccctttttt ttgatagact agtttctttt ttgtgtgtca gcaaaatcaa 360
 agatatatta agcaaggtag cagagatgta ccaagataga atacaagttt aagtccatcc 420
 ctggttactc tatattttatc acatataata aatataaatt aatcaat 467

<210> 5505
 <211> 510
 <212> DNA
 <213> Glycine max

<400> 5505

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ttgatttaac taagaagggc aggaaaaata agggaaagat catatttgat gtggacatcc 120
ccacagatag tgttttcaga ttatagctta cacagaatgt tagcataaat atagttcaaa 180
tggctgaaat attttacttc ttagaattca ttcattatat tattactaat ttaaggatcc 240
tggtgacaaa tatgattggt ttaaatgaca tcaaaagtgg atgaatttga ggtgtaaadc 300
tatattgtat gtttgacttg aaattggtga gaacgacaag aggggtcatg tgataaatta 360
ttggcttttc aactattgat agattagttt tgcgaattcc tgcataagta gattattata 420
ttgacgtggt gatttgttta gcagacattt gtcatggaac ctgcatttct tccttcactt 480
attattgata tattttaaag agtttgaaa 510

<210> 5506
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5506

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gccgttttct cacctaataa atgataaaat gaatttcaac cgatcatttg tgttgtaatc 120
tcatttaatc actcttaaaa tgaaatctaa ccgatcggtc acgctataac ctcggttaaa 180
caaaaaaagt aaaataataa taaaataatc aaaatatctt gaaaaataat aataaaataa 240
acaaaatatc tttgaataaa ataaaacaaa aaaatcaatc ggacgttttt tctttggaag 300
tttccttgaa tgaattgatt aataaccaa gtgaaactaa gactaaaata gactcacaaa 360
tcaagttttg tccgaaaatc actaaaaacc gttttaagggt ccaacgcctt anacggctct 420
ctttgctttt atcggttaac atggaccggt caaaagcata aaatcaacat gtaactttac 480
cgcttttgaa 490

<210> 5507
<211> 381
<212> DNA
<213> Glycine max

<400> 5507

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catccactcc acaaagtttg aaattgaaga gaccttcaat cctattacac aacgtggccg 120
 acaaaagtgg gcagttaact tgaatgggtca ttattgtcaa tgcagaaggt attctgcgct 180
 tcactatcca tgttcacata ttattgcagc tttgggttac gtgagcctga actactacca 240
 atatatagat gttgtttata caaatgagca catcgtaaaa gcttactccg cacaatgggtg 300
 gcctcttggg aatgaagcga ctattcctcc ttctaataac gcatggacac ttatccctga 360
 cccaacagca attcgtgcga a 381

<210> 5508
 <211> 582
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5508

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 aaaagaagaa gagttgagag gagacaccac ttcaaggaga agatgagtca agaagaagct 120
 caccaccata gaaagccatg gataagagct tgaaggtaga agaagatgaa tggagggaga 180
 gggagagaag gagcacgaaa ttttatgcct caaaagaggt ctgaactttg aagtttaatt 240
 ctcaaatgat caaagttgaa aaaattcaca cacatggcct ctatttatag cctaagtgtc 300
 acacaaaatt ggaggggaaat ttgaatttct attcaaattt cacttgaatt tgaaattgaa 360
 tttgtgaagc caaatttttg agccaaaatt tctaataa tgattagtga atttttagcta 420
 tggttcagcc cactaatcca agatcaagtc caagattctc cactaagtgt gcttaggtgt 480
 catgaggcat gntaagcatg aaagacatgc acaaagtgtg actatatgat gtggcaatgg 540
 ggtgtagcaa gcaaattgct acctcccctc tcaaatttaa tt 582

<210> 5509
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5509

tgatggtacg ctaagcctca catctcaggc taagtgcata ttgcagaaaa gtttgcgttg 60
 cagaaagtgc taagcacagc ttattgtgct aagccccaga tgctcactgg actttacaac 120

ttcaagttgg gcttagcgcg aggttaggct aagcacttgg gtttttaaac tcaaacgtca 180
 catgggcacg ctaagcacag ctgtgcacta agcgcgccat acaaatttca atttttatta 240
 aaaccaaagg ctaaggcact tgggtgttac cccaaatacc tttagcttct ccctttgtta 300
 accttgagca agtgtgtatt tctgctgctg gtgtgtactg cttgtcagca tcttctttgg 360
 ttcatttcaa tcacaatcca agtaagtggg tacatttcca ttnttatttt tcatccttca 420
 aaccttagga taaatgactt ctccgtttct tagttgtatg ttggtaagtt aagtttttta 480
 gtttt 485

<210> 5510
 <211> 925
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5510

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 gcaacatnca acataagtga tgatgattta ttgaaaccaa aaaccacatg cgaggggagg 180
 ggagtaatac cattaatata aggatccttt attatggata ggaaattaaa acggaaaatt 240
 gattgaagtg gtgggaaaaa ataactcaga aggacacca agaaaaggcc ctatctaaag 300
 gacaatctac cttataaaaa caacggcaat aatagggtaa atacgcctaa acgaaaaaag 360
 gaaaactgtt ggtttggaac aaaatgcaa aaacaagggtg gggcgaattg taacacaaaag 420
 gtaaaggggg gttaaaaacc ctaaaacaat gggggtaatc aaaaataaat ccaaactcaa 480
 aataacatcc acaatgggga tatactatgg cctaaccacg cacaacgggg aattaacaat 540
 ggcaaacctt acaacaagaa gatataaagg gcgcacagaa ataaaaaaaa ccaatagaaa 600
 tagcgaaaaa aaaacagagc gcattaaata ggattgtacc aaaccaactg ataataatac 660
 cacttataaa atagataaac aaacattaat atgtaaaaaa tacaccggaa cacaacact 720
 gcttaaaaaa gagagtttaa aattagaaag ggtggtaaca tcgagacaca ccgccttaaa 780
 agtgcgaaaa aagaaaaaga agtgggctac tctgaggaca tataaggga gggactagaa 840
 caaagtgtat atagcggaat atcatcttga caaaagcgtg gacacaccac aagacgacac 900
 atcttcgaat aatagggaga tgacg 925

<210> 5511
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 5511

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agcttctgaa ggaaactgcc tagtctataa atagaagcat gtgtgacact tgttgggact   60
ttgatgaatg aaagtcttat gagacacact tcaaagcttc acttctctcc ctctttaaat  120
ccttcaatth catgctcttc cattgtctct ttcttttact ccattgaagc atcctctgca  180
agtcacattc ttgggggtga agctacttct tcgatggctt attcccttgt ggacggggcc  240
ttttctcacc tattattctt tggctttcgc tgcattctca tggcgaaaaa ttaccgttga  300
aagacctgat t                                                    311
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<210> 5512
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5512

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cgcgctagtt gctcatccgt agcttggctt ttacgcatgc taaaaaagct attctttggg  120
acgtagaaaag gaaatatact aattcagtag agaacgtagc tgggtgcacaa gacaaaggag  180
gacaggaggg gtctggggga ggagctctcg gcacatagtc agtcggcatg gtctttcatg  240
acctatangc tttgggcttc gatggctgct tgaaagacac atattgggaa gttggctatg  300
gtccgctctg cattgtgcag acgactgatg gcttacattg ccaagagggc attgtgagac  360
aaaggaaaagg gctgaaaagg atgggtgccca ggatctcaact attacctatg catgtgccag  420
aatgcgatac cgtaaaggtc gatgtgtcat tgcgacactt accatgtata ccggggctaga  480
gtgttgttcc accgaaa                                                    497
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<210> 5513
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 5513

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gcatactttg aagcagcaat tcgagctatt acagacgaat gagaaggaag gtatagccga 120
atacctaaat cgtgtgcaaa atctgtcgaa tcaagtgatg gcttgtgggtg aaaccttgaa 180
cgatcaagat cttgtagaaa aggttttaag aaccttaagt tcaagatttg attatgtgggt 240
tgctgcaata gaagaatcta aggattttgc ataaatgaaa ttggatgagc ttcaatgctc 300
tcttgaagca cacaagctaa gaataaaaga gagggaaaca gatagggtcat ctgaacaggc 360
tttacttgct cagagtggaa aaatattcca caatggctca cgcagtagta aagggaaggc 420
taaaccctaaa taccctaaat tgaaaaaaca agagatgatg gtactgttga 470

<210> 5514

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5514

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cctcctctaa atcaccatta agaaaagttg ttttcacatc catctgttgc aactcaaggt 120
caaaatgaga aactaatgcc aagataatac gaagagaatc tttcttagat actggagaaa 180
atgtctttgt gtaatctatt ccttcctttt gagtaaatcc ctcaacaaca agtcttgcct 240
tgtatctctc aatgttgcct aatgaatccc ttttgggtctt aaatacccat ttacatctaa 300
tggcctttgc ccattangc atctttacaa ggttccaaac tttgttactc tgcattggaat 360
tcattctatc cttcatggca tcataccata aatttgactc tttacaactc gtggcttgat 420
ccaaag 426

<210> 5515

<211> 115

<212> DNA

<213> Glycine max

<400> 5515

aacactgcct gatgcatcga ccaacaagtt tgcacctttg atatccctaa agaaccatat 60
acaacaatgg taatcacgtt ttattaacta aaaagcaaaa agggggggggg ggggg 115

<210> 5516
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 5516

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 aatttgcttt gcaatttact ttgtggtatt tatagcagtg tttactggaa ccctagtcca 120
 ttaagtttat tttttagttc attggctaaa gcaaagtact gcatttgcac tagtcctttt 180
 ttaatagtcc aacttctgtt tttctttttc tccctgttat ggcatgttaa ctcaaaacag 240
 ttatttatct gttatgttat attaatagct tatattatct atttatttat ttttctttcc 300
 taaatcaata caaagagtga tgtgaaaatg aaagagataa gtacaatgag aagctggcct 360
 ctatttggtg cacaactagt ggtctttttt ctggggggtt ctcttataaa cacgctgaga 420
 gactgggtag ctttgc 436

<210> 5517
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 5517

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 gtggagtcac cccattagtc caaggctcct ttttaattga taggatatta aacggtaaaa 120
 tttgattgaa attgttggca aatactagct ttagttggac gtccaagtaa aggccttttt 180
 aatggttaat ttgcttttaa aaataatgcc tataattggc taaagtatgc ttaagcataa 240
 atggaaattt tgtttttacc aaatgaaata aatttgagct aattaacata agtaatggtg 300
 ttaattacct aaatcattgt gtaattaaat taatccaac 339

<210> 5518
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 5518

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attttccacc atagagatgc agcggaagac aaaggagaaa aggtaagagg cggcgccatc 120
 cactaaggaa gaagccatgg aagaaggagc ttcgccacca agatgagcct tggataagaa 180
 gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gagggggaag 240
 cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcacaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa aactttgttg 420
 agaagctaga gcttagctac acacaccct ctcataacta aactcacctc ctt 473

<210> 5519
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 5519
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 gcacattggg ccttaaagag actacttccg aatagccttg gagacctatg tagtgtttga 180
 aagccatgaa caatatgatc actctacaac atattgaaat taaagcattc tttgaaacaa 240
 ctacacatgt gggtgggcat gtttttaaag ttaccttata caagaaacta tttggcatgg 300
 tatcaaagta tgtgtttaac c 321

<210> 5520
 <211> 880
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5520

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 cccacaagcc ccgnaanat gatgcctgca ngtgcanct gacacttaga gactcagcct 120
 acatccatcg tgtattacga agcacaacga ctgattctac gaggatggag taggatcaat 180
 ctggatacgg taattgcact aaaccatgcg atgcatatgt gacgagatcg aaaatggata 240
 ccagaagaat agcacaagac tttttgaccc cactaagagg gacaatgaca tcacatttct 300

catagttaaa aaagacattg ttgattaata taacattcta atcgtgtgat cttcatataa 360
 tgaaatcata aggaaactag tgatgatgcc caatcttaag aagaccttgc acatcatgaa 420
 tgagattgga atagtgattg gggtgagaat cttcatggaa acgatacctat gttgagaatt 480
 gtacagccac cttgaaaaca cagagctgt ttttaattctt aaccgcccta caaaataaca 540
 cctttgcttt gtgtccaccc ggacgacaaa accacaaaaa aacccttcca cctatttggg 600
 atagaatgaa caaacaagca cgaaatcgaa aaaaaaaaaa tttgtaggaa agggaggtgg 660
 tgaaaaaat gggaaaatat ctgggggggg ggggcaccac tctctctcat acctctctc 720
 cctctccttc atgtacatta ttcaccattt ctactcccc ncgtcccgt acattcctcc 780
 acaccataca actcacattc cataccaaca acaaccaaat ttcttacctt caccaacaca 840
 acacaagcta cacacactac acccataccg actacagcca 880

<210> 5521
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 5521

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 tacacagtgc ccaatacaga caggaggcag ttatacttat gatttcaatg ttactgagca 180
 gagaagaaca ctatggtggc atgcacacat tctttggctg aaggccactg tgtatggtgc 240
 aataataatt atgcctaaag ctggaacacc atttcctttc ccacagccag ctagagaatt 300
 tgaaattctc ctacgtcaga ttgaatttca agcgtataat cttaatattg gaaggataaa 360
 agggtaagaa atatgctata agtaattttt tgtgcatgca atacgtgaat ggtggaac 418

<210> 5522
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 5522

aacgccattt tactccctct gttgatcata cattacaaag agaaattatg cttgatgtca 60
 cgagtcagct cgattccgct acaataccaa agttcacacc atgtacatac tggaaaatta 120

tactgaccca tgttccaatg tacaattatg agaattaatt ctgactatca tcttggacac 180
ataaactact tgggaattac cactccctag caggacagaa tactagtaca ttgagctatg 240
tgcacccctg cgaaacatgc caaacctgca aatcactgat acatgccctc tgtaactcct 300
tctcgaggaa ttt 313

<210> 5523
<211> 395
<212> DNA
<213> Glycine max

<400> 5523

agcttcatat ttgtatgtca gttggcatta aaaaatttat ttgactaaca ttttgatata 60
aatcattatc gaataacaaa atttcacatt ggttctgggc ttttgtgaag tagattcttc 120
taatttctga aatttttttc ttttgggaaa aggggtggaaa ctaaggagct taagaaaagt 180
taattcctaa tagccaacag ttcatggcta ggaattggga aacctgctgg gcgttaggct 240
gatttaatgt gtttgggtta agccgtatca aattccaatg cacgttgaat gcaatttcac 300
tcaaaagaag ctttggcggt caacgtgcta aacgtcaata caagcagtct tactttctgc 360
aattcaacat actgtcttac tgctgcctcc tcaat 395

<210> 5524
<211> 240
<212> DNA
<213> Glycine max

<400> 5524

tccttgagaa gtaaggaagg tagcttcctt gggaagttag agggggggcta ttcacacccc 60
tccaatagct aagctctccc tcatgccaaa atacatgaaa atacaatggg aaacttcctt 120
gagaagcaag gaaagtaact tccttgggaa gcaaggaaga aaacttcctt gagaagctag 180
agaggggggg gggggccctt tgaacgggtt ttggctttac tactgtcata cgttattttc 240

<210> 5525
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5525

agcttatttta ttgattaat gaatcatatt gattattaat taatgcttta ttgtttttt 60
 taataagcaa aagtgatgat atatattata cacaaagggg aagcaaccta ttacaagta 120
 ttgaaaactg aaaatactat ctccatacct tggttacaaa atattaacat aacaacaata 180
 taaatattaa gtaaccaagg aatccaaaaa gagaaagttc acctccctgc aagtcactgt 240
 aatactacta gtgacaatcc tacccaatca ccaaaaaaac ataaataatg ccttaccctc 300
 ccacatgttg ttcccaaaat attaatgctt tatttgttgt tgatgtatgc aatgcaaggc 360
 aattgtgaat cccaatgaat gaatgatttc atgaatgaga gcaagctgaa tgatcctctg 420
 aacagctctg attatgtccc aacctatgag gacaangatg gtgactggat gcttgccgcg 480
 aatgcccattg 490

<210> 5526
 <211> 941
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5526

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 acgccaccta anacctcccc cctnctcntg ctaccgcncn ctttgattgc ctgccattac 120
 gagacactat acaatactca agcctcatga agatgatccc cgatgaaaca cgcagctttg 180
 atgattataa aaagcccgat aaaatgaatt caggattcag gcattgcagc tacgactcgg 240
 attaacttta tgcgtcttgc aaaaaggatc cccaaggtag tagccccgag aatagtgtgg 300
 tctctcgaat caccgagaaag tgactttctc attgttgtaa aaaaacttag aatacatctc 360
 ccggcagtag tgtaatcadc tcttaaaaaa cacacatadc acaaagggtg tttttcaaaa 420
 tagatatact caaaattctc caagtcaccg ggagggtgta ttatcttggg gttgataatc 480
 aacattccag aaattgatth cctgtggcct cgttctgcct tcgaaaaact ttaaccgcat 540
 gtgcaaagct ccaaaccagt tctaaaaggg tgcacctctg tccgggattc cggaatcgac 600
 taaccaagca tgatagaatt ttcactctac ttcgggaaag cacatctctt cctaaaaatg 660
 gccagggaaa ctaataacat tttatgggaa tgcgatgtcg ttcgacacat acggcaaaat 720
 aattggggag gagggaggtc ctacccccgg cctacccccc ctatatcttc tcggaaaaaa 780

ccatctctaa tgggcttctc tctcccttt acattctttc ttatacacct acacccccca 840
 tccgctatcc aataccactt tgcacccac gctcttgatt actctacgac acactttcat 900
 caatcacatg aaaccatcac ggtgtcctct ccgtcttata t 941

<210> 5527
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5527

ggtaattgat canactcttc caatntatgg ntattttgta gtgttataag tattttctgt 60
 taagtataga taataaatac ttagtacttc cattntgtgt gtttaataat cattttctct 120
 caatttcagg ttaattaggg aagctttgaa aagtgttggt ttccaccttc tgcctaagcc 180
 aatctgctgg cttagcgagc atccgctaag cgcaacactc atggnggcta agcgcaagga 240
 agactcttct aattaagaag ggggggtgaa ttaattattc ctaaaccttt actaattaaa 300
 aatttactct tctatggctt ttactatngt tgtaagtaaa tgaagaatag aacataaact 360
 taacccaaaag taaaagcgga at 382

<210> 5528
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5528

gctccttctt ccattggctta ttccctagtg gatggcgctt cctctcacct attctccttt 60
 gtcttccact gcatctccat ggtggaaaat caccattgaa gctcaaagat ccagcctcca 120
 tagaagcccc acaagcaagc ttccatcang ttattaaagc tatcctgagg actttcgaac 180
 tgcgaccagg tctcanaatt aactttgcaa aaagcagttt tggagcaata agagtgcctg 240
 atcagtggaa gcaacttgca gccattact tgaat 275

<210> 5529
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5529

tcttttctct ctttttctct caattgttct tcattcttct ccctcttttc acttatgttc 60
 ttcctttntt cttgcacaaa ttntgtggct cttctactgg tgatgatcat ggaaggctaa 120
 acacaatcaa tccaatgatc cactccaagc aaggctgaat ttaagttcta gtttagtatt 180
 tcaattttgt gtgaatgttt atctttttct tcaatcctat ntccaatttt catgattatg 240
 aataggctta ngattgaaaa ctaattangt tatggattca tttcctaatt tcaaaattta 300
 atcacaagtt ngttggatga cattccaact aatttgtgat ctcaaagaat ttanggant 360
 aattcgatga actaactcta atgacattga ttgaactttc ataacataat ca 412

<210> 5530
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5530

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 ttatttatca tttctgttta tagtgcgttg tcaagttggt catattgtgc atgttactta 120
 ttctgcctaa cacttctact actgcatatt catagtcttct agcttatttt cttgaaggat 180
 ttcaatgaag ttgtggtctt gcaactttta ttcacagctt gcaaagtctc tatcaattga 240
 aggggactac cagggttcaa tctctgcctt anagtgtgga tatgtctgtg ctactgaagt 300
 atgcttcccg gagttgcagg tatgttgtca taggttacia at 342

<210> 5531
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5531

tgttgagcca ctagaananat gtgaagcaag attaagagat aatgactgat taaaccataa 60
 tgcagaatac ggctgcagta gaatctgcaa taaaagaatt gtgatgaaca cttctgggtg 120
 tgtacctctt gcttcagact atgttgaaca tcattttagt gggtttgttt tttcctaggt 180
 ttaccgcatt ccgtgaggta ccctgtttcc tggaaccaga tcaaaacccat acatagggtga 240

gaaaatcttt cttctaaata attgtctaga agtaacttat tttgcctgtg gactacagag 300
aaagatacaa ttatattaaa ttagaccatt attattacaa tattaattat gtcaaacata 360
tatgctttcc ataaaatcaa ttctctgttc atccatccca ttacat 406

<210> 5532
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5532

ctaagcttaa gaattatggc ctcacaaac tacttggttc ccgagggaaa ttctataaat 60
agacctccca tctttaatgg agtgggttac cactactgga aaacccgcat gcaaactctt 120
atagaggcaa tagatttaaa tatctgggaa gccatagaac aaggacctta tgttcctct 180
atagtggccg gaagtgaac aatagaaaaa cctagagcag attggactga tgaagaaaga 240
agattatttc aatataattt aaaggccaaa aatattatta catctgccct aggaatagat 300
gaatacttta aggtttcaaa tngtaaagtg ctaggatatg tgggatcact acagtaacac 360
atg 363

<210> 5533
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5533

tccatcagtg cataacgtga cttcaaaagt atttgctntt ccctttntat attnttatan 60
ttttttgggt tcgacaaggg ttgatgcaat cctaccccg c aagggcattg gatagaagac 120
tccaagacaa ttgagccaga gatgcaagag aaggccctag agttctcatg agccttangg 180
tagatttcgg gctcatgggc taagtatgag ccacttatc ttagtacata ttagattaag 240
gtttcattat ttttgggcct tgtatttagg gctcaataat gtaggtaagg taccctagaa 300
atgtatgatt tttcagccct tgtattttag ggcacctaga ctagttnttg tattanggg 360
agttttgtaa tttcacatgc attaagtga ttttgatgt gt 402

<210> 5534
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 5534

ggaccttcaa actcagcggt caatgcagca gcttctaacg agggatgtat tcatattgga 60
 gaatacagag aggcaggtat aatgacgaac agaaatggat aatagagtac tctgggtgaag 120
 aacaggagct ttcctccttc ttagcttgtc tcacaacaaa gggtagaacc ttaatatcct 180
 tatcggctac ttgcgccccg tcttttaatt tatgcattgc tgaaatgaat gctcgtgcat 240
 aaatatatct gcatgatgaa aatgtctggt cctagcttgt tgtttttatt ataatttgat 300
 acccagatat atacaagatc aatttgcacc caaatatata agattttaat ttatctcatg 360
 ttt 363

<210> 5535
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5535

tcaggaaaat gggagtacta gcctaggctt tggctcttag aaaaacaaca cttattgtag 60
 gtgaaatgct tggaccaatg gaaatgcaag gcttaatcct tatcttctta atctaagcac 120
 tttgaatgac cattaatatg actaatcggc agcttggaca gccattgatg tgctctccac 180
 aagctcagcc atgccttata tgacttcttg caatttttca aaactaacta taaaaggata 240
 aagtagagtt ttaccaaana tggtaaaaaa tgcttttgct aaaattggta aatcttatcc 300
 taatattcta gaatagtgtg ttaacctccc ttgagacatg tataactcaga gtgaaccttg 360
 cacagagtcc actcacactc atacagagac aaaatatact 400

<210> 5536
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5536

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gtctgtcttg tgcttgaaag ataaagatct tgggtgacaga gcattcacga ataacgaaat 120
ctgggataca accagaaatt tgttactttt ttaatttatt attgtttaaa taaggctaaa 180
atatatTTTT ttattcttaa taaatattca caatttatgt tgatttctga gcatgtcacc 240
actgaataaa tggaggagaa acatcatctc catttgttgt tctattcatt tcttccattt 300
ctatggntnt gaaaaaataa atgggtactct tcaattaatg agttacatgt cgtccattac 360
atttatctat ccaaaactnt agtaatgaga agagtgaaga gaanaataat tggagaggat 420
aagtagcttt ctgtccagac tgaattatgt gttttttaat taat 464

<210> 5537
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5537

tctttggacc tcgaacaagc aattaactcc tctttcagaa ccatgctatg tgctcgcgac 60
tgggtctcttt ctcccttcg caacttgagt tcaactattgc taccatag agctccgcga 120
aatttgtttc ggccatactc ttccttgcca gccctcttgg tctcttgttc aagggctctt 180
gcggttaattg cattctcttc ccgtaaccg gcacactcct tccgaacgtg tgtagcggcc 240
aacttgaact tctccttggc aagttttgcc tttcctaact cgcttttgag agctnggact 300
tcttcgt 307

<210> 5538
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5538

tctagccaaa tggacttacc ttgaattaat tcctttgata tgcccttga gccttgtttc 60
cctttccttg ttttgaatct ctctacaagc cttaaataaa aaaccatgat atcaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggataa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct canaggctat 300

agagtaaaaa aaaaaaatat tcgaaaaaag aaaaagaaaa gcaataaagt tgagtgaata 360
agatcttaaa tggcacaaga atgatgaaac tcttggttct actctttgat gttaaatnta 420
tctttacttc tttttatttc ttaatttttc taatatgcac ttattccc 468

<210> 5539
<211> 377
<212> DNA
<213> Glycine max

<400> 5539

gattcactaa tcattaacca gttttgaaaa aatgtgtata cacctaaagg gtgaatgctg 60
tgaaaatttt cccgaacgcc caaaatagac tcggatgaat gcatgaattg ataaaagaat 120
atgctttgga aacactgggt tgacttaa ataggaaaatg aatcttgagc cctagtgtca 180
catgaccata aaaacttgat gcttgagtgt ccacatgggt gcatgcatga tcagttttgc 240
ataaaatttc ctaattatca ttattgcatg tgtgtcatgg aaataatgtg ggacatcccc 300
tttatccctg aaccgctggt caaaccaacg ctctgacata tatcatgtcc atccgttcta 360
caagccttga gccaaag 377

<210> 5540
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5540

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ggatttaggc ctcatgagct ttctcatatt cagcagctta ttggatttag cttgnngtgac 120
ttccctttca gatacttggg tgttcccttc ttatcatcta gattaaatgt atgtcattat 180
gctcccttac tttccaagat tactggcctg attcagggat ggagcaaaaa gtatttatct 240
tatgcaggta agttagagtt gatcagagcg cgtattcaac gaattgtgac attttggatg 300
gggatttttc ctttgccgca atctgttctg gaccggatca acgctntgtg ccgtaattnt 360
ctgtggngca aagcggatat tggaaaaaca agcccttggt tgcttggtca gtagtttgtt 420
ct 422

<210> 5541
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5541

agaaaataga cgaagaaaca tgccgganac acattggcag cagatggaaa atgactgaga 60
 aacattcaaa gacaattgga atatgttgaa ccattaagaa gaagccacaa cacaatgctt 120
 aaccacttaa cagaagcaaa cacacttaac cacctaaaag gtagaagcaa accanagctt 180
 aaccatcaag agcagaagct aaacatggtg ttttaaccact caagacagaa ggaaaacaca 240
 atttttgaat gcttaaccac tataaaggca gaagcaacac aacaatgttt aaccatccat 300
 ggtagaagct ngacatcaat gcttaaccac catggacaga aactta 346

<210> 5542
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 5542

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 gcggtattct accacaaata aatgctgagt gaatgcctct tgtgataggt gtcactatga 120
 gacatcttgc ttccacctgc ctatcataga gatgatcatc actctggatt at 172

<210> 5543
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5543

tacttctact gaagctgagt ttctaccctc ctctgttct gacatataat ctctagtga 60
 gctgaaggat gttctagggt tctcgatcat tccgattcag tccttgattc ttattgatct 120
 ttgtcttcgg ggtatctctc attaaataaa tatcaatgaa caatatgacg gattatctgc 180
 gtttcttttt tctggctctcc gagacaagat aatgattttc attggtctca ttattcagta 240
 tttggatttg tacatcttta ttggttatta tctattcatt cattatattg gtgaacttaa 300

agtttttcta cataacaata tttgatgcac aaatanaata aaatgattag aacttaaggt 360
 attaattaat aattattatc tcattta 387

<210> 5544
 <211> 579
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5544

cccctggcga acactctgaa cactaaccga ccgcgaccgc tactgccacn cccagccnnn 60
 ncnngnnnaa tgagcccttg acccctcgat tcccggacca ccaaacnaag ctggcaagat 120
 aggagaccac agcattttca cgccttttac cgagggccac acagagacac acgacctntg 180
 tgagacactc ctaccacaca gacaataaag accatagcga aacaccataa gagagacgta 240
 gtgccagaac ataggaatca cattcagcag gaacaaatga ttgggacaat accaacatta 300
 aaaaccatgg tgacatagca aaaaccacgc gcagcanaaa tgcataaacc caaacagggg 360
 aagaacaaga caattgcaga cattagcaaa accttgtggg ctatgaaacc agggcataca 420
 ggagcaatcc cgcaaaaaac gtgacgaaat agaaactgct ataaagagga aatagcacca 480
 cgccccgaag cccacaaaaca gaaagggacc agaccaaaaac tggccaaccg cgaacaaacg 540
 aatcaccacac gtctaagggt taccacatg aacggcaan 579

<210> 5545
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 5545

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 gagatcacta ccaataagag ccggtataa taatatacta tattagcttg ctgcccattc 120
 atttcttacc ctagccagct acctctctat atatgatacc tcctcttgat caccttttca 180
 tgtttaatcc ggcttcctaa tcttctgac tcataattggg gtcgtgatta gatctatatt 240
 tggcgacact agtctcatt tgtgtgccct tcgttataat catagctata tattattcat 300
 agagtaacat gtcatatctc ttctttctct ctctttcgtc ttatattttt tgt 353

<210> 5546
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5546

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 ctntgatgaa tgagagtctt gtgagacaca tttcanagtt caacttctct ctctcttttc 120
 ctccctcaat tttatgctcc cctcccctct ctctctcttt cttttcctcc attgaagctt 180
 cctctctaag ctttntatcc aaggcactct cttagtgggtg aagcttcttc ttccatggct 240
 tatttcctag tggatggcgc ctctctcac cttttctcct ttatcttcgg ctgcatctcc 300
 atgggtgggaa aatagcatng aaggacctca ttgaagctca nagatccaac ctccatagaa 360
 gcttcacaag 370

<210> 5547
 <211> 121
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5547

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 ttgcacatat taacattgat tatcagcagt attaatttga atatgagagg tcctattttg 120
 t 121

<210> 5548
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5548

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 tttgtgcana actgttgatt tgtaactaa taataatcat ttaggtctca ccaagtaaga 120
 tgcccatatc tcattagctg gaggaggagg ctgaacccaa tgccctggta tgcggtgga 180
 tgaagttgca aggaacaaaa atcaaataag ataaaatgct ttattttcat tnttcacact 240

tcataanaga cattagaaaa accaatacag ttgcagataa gccacataac agcg 294

<210> 5549
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 5549

accctgatga ggatgtccca tatgttctta taactggact gattcatttg cttccaaagt 60
 ttcatggcct tgtaggtgaa gacccgcaca aacatttgaa agaatttcac attgtctgct 120
 ccaccatgaa acccccagat gtccaagagg atcacatatt tctgaaggct tttcctcact 180
 cattataggg agtggcaaac gactggctgt attaccttgc tccaagggtcc atcacgagct 240
 gggatgacct taagagagta ttcttagaaa aatttttccc tgcttccagg accacagcca 300
 tcaggaaaga tatctcaggt attagacaac tcagtggaga gagcctgtat gagtactggg 360
 agagatttaa gacactat 378

<210> 5550
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5550

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 tgccctgggtg attaaaccat ttncaaagct gaaaggcata caaaagttca aacgaaacaa 120
 ggtaaggaaa atacttcttt tttttatgta tagataaaat aattcgctat aacaacaaaa 180
 ctctccctga gtattttaatg cgaatgtata cctaanaact tcaatatctn ctagaacaat 240
 tatgcgctaa ttatttcacg gggttcaataa taatgataat aataataatt tatcatgaac 300
 catagtgtga cccaagccct gtaatcaatt aattatactt tngtggtttt caattaactt 360
 atctcaatta ttacactan gtgatgaaat gtttcaagcc aagctagtca ttacatttta 420
 actacatg 428

<210> 5551
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5551

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tatacttttg atcaaattta attttagtcc tttgtaatat gttaaaaatt taaagggatg 180
tcgcgaaaag gatataataa cgaaataata taaattttta catttatagt catattaaaa 240
ttcacattta atgtcatcta ataaatatta ttaattttca atactattta gcaagccttc 300
ttctcaccac atttaattta atgtcatcta ataaatatta ttaattttca atactattta 360
gcaagccttc ttctcaccac atttaatgtc gatcaattaa cnaattaaaa taataaacia 420
ttaataa 427

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<210> 5552
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5552

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gacctctgag ctaaaagnta tgaccatttg aatttctcga gagcttctcg tgttcaattt 180
catgcgtctc gatataattat ntgcctgaat cggacctccg agttaagagt tatgaccatt 240
tgaatttctt gagagcttcc gatgttcaat ttcgagcgtc tcgatataatt atgtgcctga 300
atcggacctg cgagtgacta tttatgacca 330

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<210> 5553
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 5553

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aagactgtat aacgaatgat gaacgtcgaa gaacagacga aaaccttcgc gaaatcactc 60
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ttatcttgag aaagagagaa gtgcctaagg tgctgaacce ttttctactt cacttctcca 180

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cctatttata gaaaattcgg ggagaagctt gccacccagc tcgtccaggc gaactcagct 240
cgcccaggcg agca 254

<210> 5554
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5554

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tcccaagtga attccttttag aanagcaatc aacgatgact aanatagtag tatgtctgca 120
gtacactagt aaaccaacga tgaagtccaa agaaagggtcc tccacagccg ggacggcact 180
ggcaggggggc agagcaacct ggcgggcttt cgggcttcat atttagtgtg ctggcaattg 240
atacaagctg caacaaacgt ttgcacatcc tttcttaacc ctatccaagt gaaatttttg 300
cacacccgtg caagggcttt cataataccc atgtggccac ttgtgggcat tgaatgaaac 360

<210> 5555
<211> 268
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5555

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atatgaaggg tgccccataa tccaataagc ttggtgtgag aaagcatgga agagtcagac 180
ttcctacttt atttggtgac cacagagtgg tacctagaga tatgtcgcgg tggtaggag 240
accttggtga cgtccngtgg ggtgctat 268

<210> 5556
<211> 274
<212> DNA
<213> Glycine max

<400> 5556

caaagaaatg aaaagccctc aattgtggtg gctattatct ctatagtgat tcaactcaatt 60

tggagtgctt cttagtccaa tagcgtctta atgtggttgg cctcttgctt cttgactcga 120
 cttcttcaag ggatggcacc aatccttctt tctaattgct tatatggcaa ctcacaaacc 180
 aggaagcata gagacaagta ataaccaag acccaaaaga tgaaatgaaa gctaaaccaa 240
 tagatcttta acaagagata ttatcaagga ttat 274

<210> 5557
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5557

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 tgaatcaaac atgaattagg aaagaagggt aacttgcaat tcaatacaga aaccaatttt 120
 gatatagaga ttaaattgaa attaaaagat ggcaagtata gcacatcttc taagtgtaaa 180
 aactcagtaa atttgactgt tccaaagtgt gtgactatga cttgntgacc agtaggcagg 240
 cgaactacta tgggatttat ttctctatat gtagaataac aagtcaatga ggatgcaaca 300
 tgaattgtag caccaaagtc caaaatccat gctgcagctt canacttggtg aatattacaa 360
 acaaaggata gtatattacc ta 382

<210> 5558
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5558

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 tatttcatgt atcatttgat ttattggtag tctaattcat aattcctggc ttgtgtctac 180
 ttttattgca ttaacttctc tgagcattga atactttagt gctcaacata gattcatact 240
 ttattttgtg tgcataatctt actactaagt aatttttatg acaaaattat gcagttgagt 300
 gttctgggat gtacaagact cagtatttga gggatttggt actattttat aagctacaag 360
 tctatggata cccaacgggt gaagcatcgt acttcttcat tagttgtatt gataaattca 420

ct

422

<210> 5559
<211> 84
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5559

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agattagaag ggatgagggg ggtg 84

<210> 5560
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5560

cgaggtactt acccgttgaa gatcgaagaa cgatgatgaa cgaatgaaga acgtcgaaga 60

acgggtgaaa tctttgagaa attcctcacg gaaaacgtta cggaaacgtt tcggaagcgc 120

cttggttag attttcttca cggaacaat tttccaagc aaattcgaaa gagagagaag 180

tgcctaagg gctgaacccc ttccttcttg ccttcctccc ctatttatag caaataggg 240

gaggtggttg ccgcccagct cgcccaggcg agctcagctc gcccaggcga gctcagctcg 300

cccaggcgag cagggttgct tctccagaa gcaaccgct tctggaggaa tattccggag 360

ggcccaagtg ggcctgggtg ctatttgcac cncattttt acttaagtac acccctct 419

<210> 5561
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5561

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tacctagtct ataaataaaa gcacgtgtaa cacttggtgt aactttgatg aatgagagtc 120

ttgtgagaca caactcanag ttcaacttct ctcccttnt cttccttcaa tttcgtgctc 180

ccccctctct ctttctctcc ctctttcttt tcttcattg aagcatcctc tccaagcttc 240
 ttatccaagg ctcatcttgg ggggaagct ctttctcca tggcttattc cttaatggat 300
 ggcgcctcct ctacactctt ttcctttgtc ttccgctgca tctccgtggg ggaaaatcac 360
 cattaaagga ccccatgaa actcanagat cccagcctcc cacaagcaag cttccatcaa 420
 gtggtatcag aattaaataa c 441

<210> 5562
 <211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5562

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 antgggagat cttctctctc tcttctctat aagnnnnnga agnannaaag annannagan 120
 catggggggt ctacttaat aactacgtat aacatgatat ggggtgtcaca cagttgattc 180
 tggatgctga aatagaccga cagttgctga gaatgatcta ataattgata atctactgcg 240
 aanggctgag gaataactat taatgataca ttgaaatgat acaccttctg gtaagtaata 300
 ctttaattta aatttttagac taactagata tcgcttcata tttttaacga tacactgcct 360
 tcaatcaaat ctaaagtca agccattaac tattaaagat actgagaata ttatctatat 420
 ntattaaata aaatatgaat acactttgtg atttccttgc agatgatttc ggaaatacaa 480
 agccgggaag gagcattgtg attctatatt taacgacatg tactgatgca atattgcatt 540
 acag 544

<210> 5563
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5563

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 ccatatagtt tggcgaatta tatcaaattc aagttagaca acattatttt caatatttga 120
 ctcattgtat taagttgaat atgacaattc tattattatt tgtatctaaa gataattatt 180

ataaaaattca atacattttac attacattcc ctacaagaat tataatacat aatattctat 240
aatattttat aatttgatga ccataataat gataaaatgc attacgctag ttaactccac 300
tgaaaccttn tcaatgaaac ttatgtctct aacatataat atcatattaa atatgaataa 360
ttttagtctc atgtacgtat gatataatat ggacttlaact cataaaatnt tgactttttac 420
attanctcac gcttataaaa atttcttgcc c 451

<210> 5564
<211> 318
<212> DNA
<213> Glycine max

<400> 5564

atctaatacat tccaatccac ataaatctta caattgctca ttcaaatacat tctcaaacac 60
tcatttcata caaaataatc cactgcatat caaattcaac cagttcactg ttcaaacacg 120
ctctttgtac aagcaaacaa ctcaaagtgc caaaagttat agaactgaaa cataaacatt 180
gaacattaaa tgactgaaca taaatcataa aataactgaa ataaactaaa atgttcaaaa 240
tgcacaaatt taaatgtcct gtcctgtgg gtgctcttgt gcatgctcat taagatccaa 300
cacctgagca actggtga 318

<210> 5565
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5565

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ttttatcatc tcgctttcca tcattgnggg cactacttaa gctgccagat cctccacct 120
ctgggcgtat tctttgaatg attcattatc tctcttgac atgttctgta gctgcattct 180
atctgcggcc atattggaat tgtaccgata ctacctaatag aaggcaacca ttaggtcctt 240
ccaggaatgg atccaagaag gttctagatt agtataccag gtgacggctg cccagtaag 300
aatttcttg aataaatgca tcaacacatt ttaatctttc gtgtatgcc ccatntcct 360
acagtacatc ttcaggtgat tcttggggca agtagtcccc ttgtacttat cgaaat 416

<210> 5566
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5566

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 gagtaaaaag ttattgacgt ttgaatctgc tcagagcttc aacactcaat ttcgagcgtg 120
 tcgctatatt acgggactat atcagacatc cgagtaaaaa gttattgtcg tttggaattg 180
 ctcagagctt caacattcaa tttcgagcgt ctccatatat tacgggactc aatcagacat 240
 ccgagtaaaa agttattgtc gtttgaattt gctcacagct tcaacattca aattcgagcg 300
 tctcgttata ttatatgact cagtcagaca tccgagacaa aagtattgac gttgaatttg 360
 ctagagctta acattcatnt cgagcgtgcg ctatatacgg gacatatata catccgagta 420
 taagttattg tctttgaatt gctacagctc aacattaatt cagcgtgcga tatata 476

<210> 5567
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5567

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 ctggttagtgg gtatgaagtt ctggctggtt ntagttntac cgattgggtt tgtaattatt 120
 tttttgtag aataggaaaag gatcctaaaa aactagttat ttcttctggg tggagataaa 180
 ttgtaaaaaga aagggaaaag aagttacttt gatgttcaat tgagtttatg atcctcttga 240
 cttngtatt ggtgtgcgtt tgaatcggag aagtacatgc agcgggttat ttactgttc 300
 caaaataaaa cangaaacag aatggctcat gaattaattn ttgaagaggt tggtggtcat 360
 gtaattgaga atccgtttga gaagtgaan aagaaaaatg tggcaagagt attattattg 420
 aagtctgtaa gtnaacctgg agactgtttt gattgaaagt gtaccataat tta 473

<210> 5568
 <211> 211
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5568

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agaagagaag ctagagctta gctacacacc cctataatag ctaagctcac ccccatgaca 120
aaatacatga aaatacaaaa aaaaagtccc tactacatag actactcaaa atgccctgaa 180
atacaaggct aagaccctat actactagaa t 211

<210> 5569
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5569

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cccaagtatt acgtgtaata tcgcttgacg atgtcaaaat tcacagacga aggtagctct 120
tcatcatcca tgttcataag aaacaacgct cctcctgaga aagtcttctt caccataaac 180
gatccttcat agtttggggc ccatttacct cgggtgacct tttggacatg cgacactntc 240
ttcagaacaa gatccccctc gctgaactta cacgggacga ctcttcaatc aaaaacgtn 300
ttcactctgc actaatatag tctcccatgg cttatagtag ccaatctcat accctcgata 360
agaattaatt ggtcaaagca tgcctggggc cactctgctt cttccaatcc taactctgct 420
aagaatctta a 431

<210> 5570
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5570

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ttntgtttac tttttatagc cctattgac gtgcttaagc cattntactt aagtcatttc 120
tcgcttaact taaaaataaa atcaatttcc accaaacggt tgaattgtat tatccgttaa 180
cttcgggttaa aatgaattcc gaccgttcgg tcgtgctgta accacggttg aaatcaaaaa 240

gaggtaaaaa ataatatagt aatcaaaaaa catcttttag taaaataaag cggaaaatca 300
 atcggacggt ttttctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360
 tgaaactaag gctaaaatca actcgcctag tcaagctcg 399

<210> 5571
 <211> 181
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5571

tcctagttga tgcagacgct atacgccaca tcatgcatg tgcgaaccg tttgaagacg 60
 ccacgagtgcc gagtatggc atatgaggaa cccgactgat tggtcgatga aaggccatcg 120
 ccattnctat gttaccgagc aggatttgca cgactgtgcc gaaactggc ggacatcccc 180
 t 181

<210> 5572
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5572

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 cttntatac ccccttttga cgtgcttaag ccattttatt taagtcattt ctgcttaac 120
 ctaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta acttcgggta 180
 aaatgaattc cgaccgttcg gtcgtactgt aaccacgttg gaaataaaaa aagaggtaaa 240
 ataattattat aataatcaaa aaatatcttt gagcaaaata aagcggaaaa tcaatcggac 300
 gttntctctt tgggatttct cattcttaat cgaattgact aataactaaa gtgaaactaa 360
 ggctaanatc aactcgccta gtcaagctcg tncacaaata taggtttttg aagttgtcat 420
 ttcatttctt actaagtaaa tggatcatc 449

<210> 5573
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5573

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aggctgttaa attcaaattc aaaatttgca aattatttca taaatcaatt tagccattgg 120
taatcgatta ccagagagga aatatcatat ttttgaaaat ataattgttc ttaaaaaaaaa 180
cttgtaaaat atttccttta gccaaacctg tgcagtatta attaaggaat tctttctaag 240
atcctaacta agtacatcgt tcttcttgca tttctgaatt cttgacttga attgcgctca 300
tctttggcat cattaaaact tcatacata tatgcttcta caatactccn nctttttatg 360
atgacaataa tatgaaatca agataaacga tatagcattg ataat 405
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<210> 5574
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5574

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tgaattggta cctaagagta aaatttagcg attaaatagt tacagtctct aaatcgctag 120
catatatatt ttttgttttg ttttttgttt atcatgattg ttgcatatga ttgttcttaa 180
ttggacctaa attgacgtac aaagaattgg gcaccctcca aagtttgtga caatgatgca 240
cagttattgg tccaaatgtg aaccggcccg cattgaagtt attgtgcatt attattatga 300
atagaanaag aaaggcttac attgggttcag ttctctatta taaatgggaa a 351
```

<210> 5575
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5575

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gattacgcac agataaggct atcatcttat agatggatat ctaacttgag cacattattt 120
tttaactctc aagatatata aggagttttg agagtttttt ttttttttta caaactntga 180
atgtatagaa taaagcttag agagaataag aaattcaaaa ataatttggt ctttgtaaat 240
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cttctagtat ttataaactt ctttaacaag tagtcgttat ctctaaac

288

<210> 5576
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5576

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cacgctcaac aaagtacttt cgacacctac tgtacgttga tttgaccaag gctgttatgg 120
gaatgttgcg acaatccttc aaaaccttat tgatacatc tgagaggctg gttgtcatgt 180
ggccatatcg acgtccttct ttatcataag ccatacagaca ttttttcttt gaaatgcgat 240
caatccatgt tgctatggct ggacttagtt cacgaaattn ttctaaatct tgatcaaaaa 300
tatgcttgca aggagtggag gctgcatana attacttatc aataacaact ttaagatata 360
tggaagtaaa taaactgacc ataaatat 388

<210> 5577
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5577

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tcgaagccat caagggatgg tcgtttctcc gggagcgacg cgtccagctc agggacgacg 120
agtatactga ttttcaggag gaaatatggc gccggcggtg ggcaccactg gttactccta 180
tggccaagtt tgatccagaa atagtccttg aattttatgc caatgcttgg ccaacagagg 240
agggcgctgc tgacatgaga tcctgngtta ggggtcagtg gatcccgttc gatgccgacg 300
ctatcagcca gtccttggga tatccgatgg tgttgaaga gggccaggaa tgcgagtatg 360
gccagaggag gaaccggtct gat 383

<210> 5578
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 5578

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 aagatgtaac tcttcanaag gtttttgact ntntcaaatt ggttttaagt tcttctaaaa 120
 gttataactc ttctaaatgg tcctcttggt cagacatgaa gagtctataa aagcaaggct 180
 ttgatttgct tttcaatata cttttccaat caatcttata caatccttta caagccttga 240
 atctcttgga acttcttctt cttctttgtg ccaaaagctt tccaaagttt tctgggtttt 300
 taaaccttga aaacttgtgc tattcatcct tatcatntc ttctcccttt gccgaacaga 360
 attcatcaag gactaaccgc ctgaattctt tttgtgtctc tcttc 405

<210> 5579
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5579

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 aaacttgacc gataaataga cttgtaggtt agaccaagcc tatgctctta aaaaagcctt 120
 taacaaagtc tagctcagct caacttattt tcacctttat gtttggtcat tgtgaatatg 180
 acaccctcta tctcacacat atatgtacta ataataaaaag gaataaaaat gtgaaattaa 240
 ttaatagttt ttaaatacaca tttaaataaa agtctttcaa aagaataaaa ggctcacatt 300
 cactctttta acatcataat agaacttggt caaataaata ataatcatc tcgggtcana 360
 gcaaggtncg ccaagacttc atgcaattta tatagaaact tatactccaa tgtcacatnc 420
 tatc 424

<210> 5580
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 5580

ggacttcacc cctcgtgtca tcccggaaga tttaagccaa gccctactt ttgaggggca 60
 actccacact tatgaagact atcccgggca agacgatggg gaaggagata cccatcttgt 120

gcccgtgctc caccacaaag atccatcccc gcatgaacta ccccagtcaa acatagtccg 180
ccatataccg gcctcaccca caccgtaaa agaattc 217

<210> 5581
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5581

tctttggacc ttgaacaggc aactaactcc tctntcagaa ccatgctatg tgctcgcgac 60
tgagcccttt cttcctttcg caacttgagt tcaactattgc taccocatag agctccgcga 120
aatttggtcc ggccatactc tgtcttgcca gccctcttgg tctcttggtc aagggtcttt 180
gcggttaattg cattctcttc ccgtaaccgg gcacactcct tccgaacgtg tgtagcggcc 240
aacttgaact tctccttggc aagttttgcc tttcctaact cgcttntgag agctaggact 300
tcttcgtcct cttccggtgc ttcanaactc tctttgctga cgacttttaa cttggcgagc 360
caatctaaac ctggtatatg aac 383

<210> 5582
<211> 183
<212> DNA
<213> Glycine max

<400> 5582

ctagtttagg ggccccccct ctctccctcg cgggagactc tctctctctc tctctctctc 60
cttctattct tcgttattag ttttagtctc tcttctcttt ctctgttatt tctgcttttt 120
ttgaattcca gttcagactt ttagttttat caataaaatt tcattctcta tttgattaat 180
gga 183

<210> 5583
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5583

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aatagagacc atatgaattg ctcaagagct tccattgttc aatttcgagc gtctagatat 120
 ataatgcgcc tcaatcggac ctccgagtta aaagttatga ccatttgaaa tgctcaagag 180
 cttccattgt tcaatttcga gcgtcacgat atattatgca cctgaatcgg acctgcgagt 240
 gacaacttat gaccatttga attgctcaag agcttgcatt gttcaatttt gagcgtcacg 300
 atatattatg cacctgaatc ggacctgcga gtgacaactt at 342

<210> 5584
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5584

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 gtgtctttct catctgccat gcacttccat gtttaatttc gagtgtctcg gtatattatg 120
 cgcctaaatt ggacatccga gtaaaaagtt atggccattt gagtttgctt agaacttttg 180
 tgttcaattn tgagcatctt gatataattat tggcctgaat cggatatcca agtcaaaaagt 240
 aatggcccat tgaattntcc ttctgcttcc atatataata ttgagcgtct cgatatgcta 300
 tgcacccgaa tcggatattc gagtgaaaag ttatgaacca tttgaattct tgagaagctt 360
 tcgtgttaat ntttgagcgt cttgaatatc atgggcctca atcatacacc cgagtcnaaa 420
 gtatggtaat tt 432

<210> 5585
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5585

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 cgtaacctct tctatattgt taatggagtc gatatggctg cagatgtttc catgtggaag 120
 gaagttgctg gtctagacat aggtggagtc cataagtttg atgaaactac agatgggttac 180
 aacaagatgc agacatatag gggaatgctt cttgatagtg ttcccagaag tgatcaaaaa 240
 cactttaatc aattaaatca agaactaat tgattacact attctttana gctctctagg 300

<223> unsure at all n locations
 <400> 5588

cgcatacttt gnggataaat tgctgatgtc aatgggctcc ataaccata atcatctgta 60
 caaatgaaaa tattcaaata gagactcttt ttgtcctttt ctaactatgt acaactcttt 120
 ttggaaatcc attattattg agttatgctt gtgattatta caagtatata gtacaatgca 180
 aacttcaact tatcatatat agagaagaag aaataagaga ctcacacgac gactgggtgga 240
 tatatagtcc agcacttacc atccagacat gagatcattt gctcgtgggc ncatatttat 300
 ctaatttgta tttgaatatg cctcanacca attagacact atgggtatgc ctatcactcc 360

<210> 5589
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5589

tactcttcat gtaacctatg taaactacat ggatattgat taacattgnt aatatctcta 60
 tatgtgcttt aaccggaatg atatcgatat ctacattaag tagaatattg tgcattctata 120
 cacanacata caataaatat gaaatattat ttcggttcgat aataaacatt atttggttatt 180
 gcttttagtct tctggcacga tatatatagg ggcccgctctt gtaaatttta ttcaagtatg 240
 tgtgcaactg acatattctg ctatagactt ttgattgat gcatgcactg acaccaatta 300
 tgaaagaagg gttctgaata ttgtcccaat taatcacatt ctntgaaaat gaaatgcttg 360
 tcataacttg tattctatat atgttatgat attaacattt ccaatatctg atttctgggt 420
 ggtaaaagta gtatat 436

<210> 5590
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5590

acttaccgt gaagactgaa gaaaacgat aacgaacgat ggatcttgaa gaacgggtga 60
 gaatcttcgc gtaattactc acggaaacgt tacggaagcg cctcggcttg gattttcttc 120

acggaaataa ttttcctcag caaattcgaa agagagataa gtgcctaagg ggttgaaccc 180
 ttttcttctt cacttctccc cctatttata gcanaatagg ggagaagctt gccgcccagc 240
 tcgcccaggc gagcaagggtt gcttcctcca gaagcaacag ccttctggag gaatcttct 299

<210> 5591
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5591

ctcagcttct ggtgctgact agatctatct agctagtcct tggcttaana tatgaagata 60
 tcctattcta caccggagac ctacatatac taagagggga aggagctgca tcaacttctt 120
 gggattctgg cagatcttgg agctttaatc tcgctgagtt cattaaagat tgtggcggat 180
 ttatctacac gtttgtgtca tccacaacta tctcttttagc atcttttctt tattttacat 240
 cattcctttt aactatatta ttgata 266

<210> 5592
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 5592

cttcttaagt acttagataa aatgattact taaagtaaag gttctaagta aaacttaata 60
 ctaccacttt agaagctacc ttataaaatc acaagttatg ttgtcatacc aggtttggct 120
 tttcacattt ctaatgcaag gtagatgcta cttttgaata ataaaactgc tttttaaaaa 180
 ccgtttgata aaatatcata gtaaagcttt tgtaaacaag gtttctccaa aactaaagat 240
 gaacatgcaa caatggaaag taaatgagaa acaatgaaga aggatacaat acacaaagaa 300
 attcacattg gttcaaccta accagggggc tgtataccta cacct 345

<210> 5593
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5593

ntctataagt cctanatgac atttcaagct aggggttaact cactntaacc tccaactctc 60
 anaacctcac tctntttcca ctcataacac catattctca ctntctaacc ctaggttaac 120
 tctacccttc atctctaaca gttttccata agcaatttca gcacataaac atcacaagca 180
 tcatcataaa aaccctaata ctgaatgggt aagcttaact catccaaaca tggcaagttc 240
 aacatccttt caacaaattt cttcaciaat aactatcatg aagcagaaac ctagcaaaac 300
 taccatcat atctcccaga acccaatacc cacgaaaatc aagtgagaaa gaagtctacc 360
 canacctgaa atttaagggt ccacacgtag agat 394

<210> 5594
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5594

tggtaatcga ttaccagtgt gtttgaacgt tgaaattcaa attcaaagt gaagagtcac 60
 atcctttcac gaaaatgctt tgtgtaatcg attacactga tttggtaatc gattaccagt 120
 gatagtttct gagcaaatca aaagatgtaa ctcttcaaatt agtttttgac tttttcaaatt 180
 tggtttaagt tnttctaaag gtcataactc ttctaattggt tctcttgacc agacatgaag 240
 agtctataaa agcaagactn tgttntgcat tntaanaaca tctttccaat tcattcttta 300
 gacaacaaac ttttgccaat tgctttctga gtctctttga acttcttctt tctcttctt 359

<210> 5595
 <211> 301
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5595

tgatgatatc ttagatgatg acananagct cacaagtcaa gagcacttca tgatacaaca 60
 gatgatgatc tctcgatca aaaaatgagt tcgagattga atcacgaaca cttcaagggt 120
 ccgatggaac attgatttct agaatacaaga attaagtttc acgattcaag ttccaagaat 180
 caatatccag attcaagaat caagagaaga cttcatcaag ataagtatta aaaagtcttt 240
 tcaaactg agtagcacat gaatttttct cagaaccttt taccaagact ttctagtctc 300

t

301

<210> 5596
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5596

ctgctctgct ctcacttctt ttatatatat cataacatat gcatacaca aagattgaag 60
 caagtcatat ttacaacaca naatgatcaa catcatgata cttctataga tatctaacta 120
 tgtcagtgta ttactttctca gctctgggtg atttgatgaa caccagaatc cagatcccc 180
 tccttctgcc agtaatgcaa gattcaggtt aaagcatggt ttttttctca ttaatatttc 240
 ttcacgaatc catcctaatt gaggtaacag agaaccaatg gccatagcat gcctgcacag 300
 aagactcttc tgctatccta tg 322

<210> 5597
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5597

gtgggtattat agcacaagag cttcaagtat gtgctcctta aacctccata tatattttgc 60
 tgtaccttct cttctatagn tgcttcttca ttcttctcca tgtatctcct cacatgtctt 120
 gtgataaatg tttntaacat gattatttag agtttccact gattaaattt gctatacaag 180
 ctagatttga ttttctatgg ttcaaatttc ttgggtcttg tcttgaacca tgaattttgt 240
 tgagtttaag ttcttttgag ttntgtcttg atattttttg tggctgacac cgaaaccata 300
 aaattcttac aaacatatta agtataaga aaacctcaca catctagagt gacttgntca 360
 cctattgtag ttntgtcata caagtcatg 389

<210> 5598
 <211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5598

tctcgaatat tatgcacctc gaatggactt cegtgtgact agttatgacc attntaattn 60
 ttcgagagca ttcggtgttc aatttcgagc gtctcgatat attatccatc tgaatcggac 120
 ttccgtgtga taagttatga ccatttgaat ttctcgagag ctcccgttgt tcaatttcaa 180
 gcttctcgat atattatgca cctgaatcag acttccgtgt gaaaagtat gaccatttga 240
 atttctcgac agattccgct gttcaatttc gagcgtctcg gtatattat 289

<210> 5599
 <211> 253
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5599

cactgcttcc atgcccaccc ctgaggcgtg cgtctncatg gtaaatagga gggagaaatc 60
 taactacata ttaacacgag ctgacggtag agcctccttt agggctcttaa atgcttggtc 120
 agcctccaaa gtgcattcgt aaggatccct actggtgagc ttgaccaagg nggcaacaat 180
 atatagaggc atacccttga ataaaccgac ggtaaaaatc ggcgagaccc atataacttc 240
 atatagatct cgt 253

<210> 5600
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5600

agagtactta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac accctggctg 60
 tatcaaagga ctgtcacaac ctttgtgtgt tgcctcgtc ggaaagagtg attctttcct 120
 tcctatcatc tccacccttg gtctttcgaa ccacaattcc agatnatgca cctctgcccc 180
 aaattatctc gtgaccataa ctncatttcc acacactcaa attaagtgat tcttgagcct 240
 aaattgaatn tcataacgag acatttcacc tcgntgtgga atcacctcat ttgga 295

<210> 5601
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5601

ctcagcttac aatcaggaag cgttgatggt gtcacgcacc ctccattcct agtcagacgc 60
 cacgtgaagt ggaagatggc ccgcacgaag aanacagggg aaatgacgac tgaggccgca 120
 aaggaaatcg ctgagaagat tgtaagtcac tntcaactaa ccattacaat tatatttcaa 180
 tattttgtga atgccatgta ccaactgtgtg ttttctgtgt aggattcttt tgaggagcag 240
 gccacacagg gatccttcgt ccctcatcga cgtcaggatg ttctcgccgc tgctattgga 300
 cgtccagagc accctagatg tgtccatgct gctggatccn gtgtcaccat caatcaatac 360
 tttggatc 368

<210> 5602
 <211> 131
 <212> DNA
 <213> Glycine max

<400> 5602
 agttagagct ttagtagtaa gaatatctgc ttattagtct ggagatggat catggtacac 60
 taacatgctt ctatttagta cctttctgca cataaaaagt ggcccaatat gtatgctgtg 120
 tcctggagtg a 131

<210> 5603
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5603

tgcgggtctg ggagacgaaa gtcaagtgtt cgctatatgt gaagatgatg ttccaagtac 60
 ttcggatttg gtccgaccat gccctcctga tttccagctg ggaaattggc gagtggagga 120
 acgccccgac atttacgcaa caagcataat gtaaaccctt acggttntaa aagctctata 180
 gttgggccta ggctttagag ttctcattnt gttaaggctc tgtgtctttt gtttttgaat 240
 ttataataca aggatctttc ttcactgtgt cctggctctc acccattctc attcatttgc 300
 atgtttactt ctttttctga aacggcagat tcgatgacga gtcccccgaa gtactaatac 360
 ctgngacccg tcta 374

<210> 5604
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5604

nttcgtanag catagcggaa gatctgggac ctagtcatgg tagatgtctc caccgaggcc 60
 attgcctccc tcgcccataa ttatgactag ccgttcaggt gcttcacctt tggggacttc 120
 tagttatcac ccacggtgga agagtttgaa gaaatcctat gatgccctct atggggaagg 180
 aaaccatacc ttttctcggg attctatccc tctttagcta gaatttcaga gatagtccaa 240
 atctcgggtgc aagaattaca ccacagaaag caagtcataa atggcgtggt tggaatacca 300
 tcgaaatgtt tggaagcgaa agcaagagtc tcggcaggta acgacgaatg ggaacagttc 360
 attgacatac tctcactgtt gatctttgga gggctctctt tccaatatga tggg 414

<210> 5605
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5605

aacttcgcca aaaatccgca ttgagaaacc tttattcaaa cctttcacag ttagtgagaa 60
 ggctaataka aaaattatgg aacttagaac aactaaatcc ttaattgaag gcgtaggtga 120
 caaccatagt gaattactaa acaagattgg tagtttactt aaagtcattc cagatacccc 180
 ccaagcctcg gaaaatactt ncaaaatggg gacaagaagt acctgcaaata taatcaatgc 240
 tattaatgaa gatagtgacc aaaactcata taacacaact gagataggat ca 292

<210> 5606
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5606

tactcaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc aagctgtcca 60

aaaccccaaa aatgtcagtg ccatttcatt gaggtcggga aagcagtgtc aaggacctca 120
 acccgtagca ccttcctcat ctgcaaatga acctgccaaa cttcactcta ttccagaaaa 180
 aggtgatgac aaanatctac ctaacaattt ctgtgcaggt gaatcttctt ccacaggtaa 240
 ttctgatttg cagaagcagc acattccccc tcttccattc cctccaagag cagtttccaa 300
 cnaaaaaatg 310

<210> 5607
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5607

atatcccacg aagcactact acatcatatg tgtatgacat cacttatgga atgcatacta 60
 catcaattnt agaactcatg ttgntcaaca caatgttaaa tatatgcata tatttaacat 120
 cgatatgatt tcaaataaat gtagaaccct aataacattt aacattgggtt ccccttgatt 180
 ntgatgtang aagtgcacacg ccctgcatga gtcaagtcac atcttacatc atttattgac 240
 ataaccgatg ttgaaagttt cgcttactac attgatnta gcaaaaacca atgcaaaatg 300
 tatttttttt aataaaaaag ttagcatttt gatatgtatt cattgggtcc atgtntatan 360
 ttngaatat gcatcttata tattaatata ctattaccta tatgctatca agttaatttt 420
 ttttta 426

<210> 5608
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5608

gtcttggatt cttctagtaa gttatcttat ccacttctca gataaaattt cttctttatt 60
 attaaagagg agaaaagaga gaaattcttg aatggctctg acttatataa gattattgta 120
 gaacgaaaga acttggcttc tataacaatt atcccaaat aagataaat tatcttttaa 180
 gacaagtgta ttacctttt caaatcaact aagttctttc tatgataatt agccttaca 240
 aanaatgtga aagacattat tgtctaataa ttcatattag actctatacc gacttctcta 300

acagtaaaaa atgaatattg ttaattaaac tattgtgata accatct

347

<210> 5609
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5609

tatgttgatg cctactattg atatatagca ttgaccatac atgatactag ctagagagaa 60
tagaaactat cgataatagt aactccata ggtagtaaac cacancaaac tctagtggct 120
tgcataactt tagataaatt tagcggctct taatgcttat cctatatata ttataatgac 180
ataagtattt ctaacttggt acctccta 208

<210> 5610
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5610

atatgcatgc aatctacgga ggggagcggg gttgcgaagc ccanaccctt ggtgatatac 60
ttcactaaaa gcgcagcttc gcaaaagcct ggacaccctt ttgtagccaa acctgttcct 120
ttcctgtacc aaaatagcca cgcggtcccg tggagatatg cacctccaag ggagaaggaa 180
gaagaagtca ctgacgtcag ctgctgtgca gctaaagtaa caaatatcac gggactgagt 240
ggtgtgacct gtagtggtcg tgtgttcgca cctccggacc taccagtcca acccgcgga 300
gt 302

<210> 5611
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5611

ttattccatt tattactttg atacatacgt tcatagattt gtcattcaga ataataaaga 60
aatatatagc tctctaactt atactgttgt ttgtcattat atatacatga tcctttcttt 120
ctttgttagc ttctcagaat ttccgcatgc tttgtgaatc ttctttgntt atatctacgg 180

acaggtgttt caatttgtga catgtatagt tatggaaaac attatgtgat catgaagctg 240
aacaaggttc aagcatactg tatat 265

<210> 5612
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5612

tacctattac tgccttagtc aatgaaacat ttaataaaat aaatgattaa ttngttacta 60
atggcatgaa aatcatgaat atgataaagg taggacatat gtactttgaa gacgtatatg 120
ccatgatgca agagaatcaa cacattgcta cctgatatta tgttcgcatg tatgttcgag 180
aaacatgaga gtntgagggt caagaaattg taaatatgcg gcttggttga cgagcaatgt 240
catgcattgt cnacatgaat gaatggtcgt gtgattatgg agaatatcac acacttcana 300
ttccttgctc gcatgtgatt gcaacgtgtg ctntttgcaa ttcagattat gatgactctg 360
tcgacccat atacaagttg gaaaaca 387

<210> 5613
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5613

ctcacatgca tccatcatctt ctgctggaga tagttggctg aatcaactga acaaatgatt 60
ntttttgttg tgactagcag atgcttggtg aaagtatgat ccaatgcaca aactactaga 120
cttattggat tctctccttg cctcctagct ttcagatctg aaatatcaca aatcacacta 180
gaatgagggg tgaacagtgt taataaaata caataactnt tttgtaaatg aataatttat 240
gacaagttca naaagatata tgcattggag ttgtccactg ataaggaaaa acaagtttga 300
cgaaaataga ggtcgatcat tcagtacatg tanagcaata atttc 345

<210> 5614
<211> 307
<212> DNA
<213> Glycine max

cacaaagcaa ggaggcttgt gtggtggctg gccagctgtg aatcttgctg gatatatggg 300
 ttatggcctc tggtaatcaa ttaccaaagg tgggtaatcg attactaggc ttataaatga 360
 agacaggacg ctatgatggt ctctggttat cgattaccaa ggggtgtaat cgattaccag 420
 gcttttgaag 429

<210> 5617
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5617

agctntttgg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatct 60
 agtcaaggtc ttagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180
 gtctgccatc gccttggcct tggctaataa tcggggaagt tcttgactcc cggtcaagg 240
 aagagcaaac cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc 300
 tctagcctct ttttcgcgct atacttgggc atattcgctc gcaatcctat gctcgtgggc 360
 cgcggctaga cctaactctt cttggtactt ggcgatgata gctagcatgt tgggtctcgt 420
 ctgcataaa cgctgagaca agcttctttt 450

<210> 5618
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 5618

agcttaatga attttatact atattttatta taaaaagaat taaatagctg aatattttta 60
 caatgaccgt gagcaattca atgccaaagg gcggcaaat ttggcaaata ttcaaattta 120
 agtttttagt ttattaaaaa cgcaataagt atatgtgta ttttagtcac aattttttta 180
 taaaattcca aactttttga taaaatagtt aagtcctaatt ttttaagtga tagaacgtta 240
 agtttaggtc ttaaaagaat tttttaaaaa atgaaccttt aaaaaaagg taaattactc 300
 atttggttcc tatagtttca taattcttac ctttttggtt cctataactt gaaagtgggt 360

tttttagtcc ctataattta tattataatt ctctcttact ccctataatt ctgaaagtgg 420
atatttaa 428

<210> 5619
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5619

agcttgtgag acanaaggac ctatgatcat ctgaatcttt acactatcag cttagataca 60
aatccatatt aggtcccacc acccaaaagt gccatagaca tgaaagcatt tcaaagggac 120
aatgacaaaag aataacacag taaaatcaaa ttatttgtaa cataaacctg ngggagaatt 180
ggtttcacaa atctttccca gtttttatgt ttatcaagta cacatattga taggctcatg 240
aaggccatga cagaaaaata aaggaaaata agccaaagta gttagagtag atatagaagt 300
agttaggttt ggtttaatat tagttagtta ctgaattagt ttggtggcta gcttaaatag 360
cagaagggaa gtataagatc actcattctg cattgttact tagtgtactt accanaatcc 420
agagccagga catgtcaagg tagatgtg 448

<210> 5620
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5620

agctntgagc aaattcaaac gacaataacc ttnttactcg gaagtccgat tgagtcccg 60
tatatatcca gacgctcgaa attgaatggt gaagctctga gcaaattcaa acgacaataa 120
cctttttact cagatgtcgg atagagcccc gtaatatatt gagacgctcg aaatggaata 180
ccgaagctct gagcaaattc aaacgacaat aactttttac tcggatgttc gattgagtcc 240
cgtaatatat cgaaacgctc gaaattgaat gttgaagctc tgagcaaatt caaacgacaa 300
taaattttta ctcggatgtc cgatggagtc tcgcaatata tcgagacgct cgaaatggat 360
aaccaaagct ctgagcaaat tcaaacgaca ataacttttt actcggat 408

<210> 5621

<211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5621

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agctntgagg ataagaaatc tatattcata taccctattc ttgcttaagt gaatgctcta 60
atgctagagt ttaagaattc gactctcttt ataactctgc caaactcatt tgtttgcttt 120
tagacacaaa gtataagttc aacagaaatt aatctttgcc cagtttgttc ttcttgggat 180
ttttgttggt cgttcaagat tntagtctct tagcctctct agtgtattac gttaacattt 240
atggaaattg actttataac gtggatctca ccaatatatg cttatagcat tagtcacata 300
atatctgtac atggatataa taatgttgaa tgtgactttc atattgattg ctattaactc 360
taaatgttcc tataggtata acta 384
```

<210> 5622
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 5622

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tgcttaccac ataaattggt atattatgat ttagcaatgt cgaatagatg aatgccacag 60
ggattgctaa tatcaacacc tcaataataa taccctcagg tgtatgactt gcatatacat 120
gtactcttaa agcatgaaga ttgcatgtga atttagtctt tttatcttat cggcaaacgc 180
tagcttttgt tatccggcag attcaaacc acatgaattt agtcttaa atcagtcctt 240
ggaatcctat aaatataggc gattgaaata gacagagttg tagctagctg cttaccattt 300
aatacatatg ttgatgactg agaaagacaa tggatcatga tgatcataag acagagctca 360
aacctatgag ccattgatatg gctcgaccca agataactgg tcagatgacg tctgatgcaa 420
aaacgaaatt 430
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<210> 5623
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5623

agctntgtga gtgattctta taaatcgatc tctagctaca atgaacgatt gggctcctcc 60
tctcatagct gcggtntgt tttggctctt gagcccgga atgatctttc agttgccggg 120
gaagaatgca ccctttcagt ttatgaacat gaagaccact gttgcatcca tgtttgcgca 180
cactgttatt tatggctctgt ttctgatgtt gttcttcggt ggtcttagta tccatcttta 240
tatttaagca gcagcaaagg gtatttaaag aaaacttatg tgttgcttta tcttttaaag 300
tagatcatgt aacaaccttc tcttggtgat caatatgtat gtgctctttt cgaatttcca 360
cttgatcagg cttctactaa tactttcacg agtgatatgc tcgtcgttca ttatttaaaa 420
gtgacgtgaa ttactatg 438

<210> 5624
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5624

agctttgagc tttgagcacc cagcactgtt ccaagagcag tctagggttt tcttcgaccc 60
acagttccaa cagtaatgta gggttttctt cgacttttct tcgataggag gttatgtggg 120
ttccaacgag cggtttccga cagtattgaa atgaatgtgg ggcaatgtgg gtgtcgaccg 180
agtagttttc ggcagatttc ggggtgggagg agaaagagaa gagagaatgc aacagggttt 240
tcgagcgcgc gagttgtgaa atttcatcac gttttaacat attaacataa caacatcaac 300
atcggttttt taaggataac cgatgttagg atgaatctgt taacatcggn tttgtaaaaa 360
ccgatgttaa cttcaacaag gtaacatcgg tttttaaaat accgatgtta acatcaactc 420
cttaacatcg gnntacccta 440

<210> 5625
<211> 434
<212> DNA
<213> Glycine max

<400> 5625

agcttgtaaa tcaattgcac ggggtccaacg ctgtattgct tcacccaaga cccttcgtcc 60
caataatcct tcatcaccca caggtcaaag cgcttctctg ttccctcac agggtaaaca 120
aggaacccaa ttgaagcaga ttcttcaaag ggtaccaaag ttccaaactt ttcactgaa 180

gaatcgcgaa tttttggcac ctttatcttc ctaaacgatt ctttgaccat atcaaatgct 240
agaacaacat cttgtgttgc atcagactct tcaacaaagc cccaccagtg gcaacaattg 300
tttgcgtaag tgaaaacccg agaagaaccc cagatttcaa ttggaagagg gagaagagag 360
ggatcaagtt ttctccaaga gtttgaattg aggctataca actcagcact ccaataccca 420
agttgtcttt catc 434

<210> 5626
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5626

agcttatata aatcgatagc ctcgaaattt tacatcgaaa actctcgaca aattcaaagt 60
gccatatctt ttcacacgga tgtctgattc gggcgcataa tatgtcgaga ggctcgaaat 120
tgaacaatcg aagctcttga gaaattccaa tggtcataag ttctcacacg gatgtccgat 180
tcaggcttat aatatatcga tacgcgcaaa attaaacatc ggaaactctc gagaaattca 240
aatggccata acttttcaca cggatgtccg attcggggcg ataatatgtc gagaggctcg 300
taattgaaca acggaagctc ttgagaaatt canatggtca taacttttca cacggatggt 360
cgattaaggc gcatcacata 380

<210> 5627
<211> 448
<212> DNA
<213> Glycine max

<400> 5627

agcttggatt tcctttgctc cggaaacctc ttctttctca tttgaacca aacccaatct 60
ccgggttgga aaacaacctt tttgcgcccc ttgtttgctt gtctagcata gctctcattt 120
ctcttttcaa tttgggctt gactctttca tggagctttt tcccatagtc cactttgggt 180
tgtccttctt tatgcttaaa aactgaaata ttaggcattg gcaacaaatc aagaagagtt 240
agtggattga aaccataaac aacctcaaaa ggagaacaac tagcgggtgtc atgcacaacc 300
ctattataag aaaattcaat atgaggtaag caaacttccc aatttttaag atttttttta 360

aatggtcctt agcaaggtac ccaaagtcct attcacaacc tctgtttgtc catccccattg 420
 aggggtgacaa gcagtagaaa atagtaac 448

<210> 5628
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 5628

agcttcttga cttgtcttgg aaccagacca caatctgtaa cccaggtac ctgttcatgt 60
 caagaggat taggaaaatg atatctaaag aatttagaaa aaaacttagc actcagaatc 120
 aggctagcta atacaacttc aaaaatgtag tataccagta tcatctcaag tccctttgtc 180
 aaaccaacaa gacgaggaag tcgctgtgtt cctaagacaa tttaaaacca ggtagcaat 240
 actaaagaaa aatataataa tgacaattag tcacaagaaa tgcaccatta ctcatggctt 300
 aacttcattt tacaaattat tctaggccta tctaacatgt gaactaagggt attaaaccaa 360
 acttgtagtt aattaataaa ttcattataa ttgaacttca aacagctttc aatgtaatgc 420
 atgtcactca acaatgagca gtaaca 446

<210> 5629
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5629

agcttcatga tgatgaacct agcaattntg atgatgtcaa aagcccaagt gatatttca 60
 atacttcaag atcaagcatc aagaatccaa tccaagattc aagattcaag ggaagaaatc 120
 aagaagaaac aagtcaagac ttcatatgga ataagtatta aaagattttt caaaaaccaa 180
 atagcacagt tttgttttac aaaataattt tctcaaattt tctcaagtta ccaaagtgat 240
 tactctccgg taatcgatta ccagttggca gtaatcgatt acgagtaacc agattgggtt 300
 tcaaaatgtt ttcacatgat ttgtaacgcc ccgaaatgat nttcacatag tgtaatcgat 360
 tacactatat tagttatcga ttacaagtga atctgaacgt tggaatttac aatcaattgt 420
 gaagagtcac aactcttcat aaaatacatt g 451

<210> 5630
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 5630

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cctgctgcat gcaagctttg agcaaataca attacttaac tttttactcg gatgtctgag 60
tgagtgtcgg aatatatcca aaagctcgac attgaatgtc taagctctga gcaaattcaa 120
acgacaataa cttttttactc ggatgtctga ttgagtcccg taatacatcg agacgctcga 180
aatggaatac cgaagccctg agcaaattca aacgacaata actttttact cggatgtctg 240
attgaggccg gtaatatatc gaaaagctcg aaattgaatg tagaagctct gagcaaattc 300
acacgaccat aactattttac tcggatgtct gactgagtcc cgaatatatc ggaacgctcg 360
aattgaatg 369
```

<210> 5631
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 5631

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agcttaatat ttaatggtat tttaagaaaa agcccaagcc aaacttcatt aattttaaca 60
gaaacgcaaa cacaaagtaa acaggcagaa aatcataaga catgcaaaaa gttatcatta 120
attttcagtt gtttttagac tagctgttgt ctaacatgtg taatgatgag acaatggtga 180
atacttgtaa tattgtttac atgttgtaac aaaagtattt tgcagaatgt cccaaaagat 240
ttctctaaat ctttccctct ccctgggttt gtaccttcag tttggacttt aagctgttgt 300
agttgataat tggtttgtag gctttactga caaagtcaca aatctgagaa gaatgggtgc 360
ctttaacgca tgagttactg gcacacacaa attcatcatt ttattgtata caaaaataat 420
taccttctca at 432
```

<210> 5632
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5632

agcttctaga aggagatcat ctcgatgttc tatgcttctt gaagggggca gtccatgagg 60
aatctccttg ggaaagacat ctttaaattc ctgcaataag ggttgaacac taggagaaac 120
ataaatagtt aactgattag aattatcact ctctctctct tgtgtatcac tcttttctct 180
gggtgtatca ctcttctttt tcatattcct ttgtggtgcc tcactatttt ctttctcttg 240
ttctctcttt tctctcattc tgatttggtc atcacacact tttctagggg atagagggtt 300
aagagtaaac gaggaagatt tggctattcg tctgtagggc tcttctttgt tacggntcaa 360
taaacgttgc atttgtgtag tccacgcgtc cagaaatatg cgctgagatt tctccagttg 420
atgatataca ccaccat 437

<210> 5633
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5633

agcttgtaac ctgaatagaa aatgtccaac ttttttttag aaccatttg ttttttgcag 60
ccactatatt tgtccttcct ctagttctaa tcattcacca tttttagtta agaactatga 120
tgttcctagt tcctagacta tgtttcagac atttaagacc ttttgcttta gtatcgtcaa 180
ccatagagag ctctgtcaat gattccttag tgagtctaga aattttgggg aaaaattgag 240
gataatttga ttaagaaaaa tagtgtttag taggattatag aataggaatt cattctgaaa 300
tcgctttaag ttgtgtgttt ttagaaattc actcaacttt ggccacaccaa tgtcaaatgc 360
caaccattcg gntctaatag ctttcctttt tacgaactta tcacctaaag ctataaacia 420
atgagaagt 429

<210> 5634
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5634

agcttcatga tgatgaatca tgtatgaatt atgtagttnt gatgatgaca aaaagcccaa 60
aagaataaaa ggtctgaacg ttgaaattca aattcaattg tgaagagtca catcttttca 120

taaaatgcat tgtgtaatcg attacatgat tatggtaatc gattaccagt gacaagtttt 180
gaataaaagg tcaagagatg taactcttga cattgatttc ttaaggttat aactcttcca 240
atggttttct tgaccagaca tgaagagtct ataaaagcaa gaccttgact tgcattcaca 300
acatcttctt gaacaacttt tgagaaacct ttaaaccttt acaaccttta caattcttta 360
agaattcttt cctaactcat cttcttcttc ttcct 395

<210> 5635
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5635

agcttaatga aaagaaaaac ttacctgat tacgactatt gtgacgacga cgcgacagca 60
tgaccggcgg tgggtggcaag acgaaacacc aatggggatc aacatgcgcg gagtagaagc 120
aaccaatat tacggaaagt actgtagcgg caaggatggg ggaattccaa gagcttttaa 180
aataaggggtg aagggcattn tttccatttc accaaatatg ttgggtgtac cagcagttgg 240
gcaggtgcc aaagccatga tagagtcaac tttgaggccc actccacttc gacagccaaa 300
cccatttttt tgtcagtacc aactttgttt atttttta 338

<210> 5636
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5636

gttattagtt aaagttaatg aaacttggta gtttgtcaat aattgaacac aatttcagtg 60
gtagagatga actagtataa atctttgtaa cttatatgtt tccttggtt tttctgcttt 120
aaagtgacat aaggtttaaa tttgattttg ttttggaag ttctatttgt tttacaaagt 180
ttctcttcaa atgataactt tgttttgta aaaaagact tgaaaatttt ctaaaaccac 240
aattcaatct ctcttcttgt gatatttgca tttacaatat atatatatat atatatatat 300
atatatatat atatatatat atatatatat atatatatat atatatttc taacactcat 360
ctaattgtct aaggttcaat tangagtaga ctgtgcccc aaagaaaatg cacataatgc 420

cgcat

425

<210> 5637
<211> 378
<212> DNA
<213> Glycine max

<400> 5637

agcttattat ttactttatt ttgtttatTT tagtatttca taaaaagaga gctctatttg 60
actccctatt aaataaataa ataaaacatc ctttttattt tctaaaaaca tattttatttt 120
atttacctta aaaccattat tttaattaat aaaactattt attcttattt atttaattac 180
aaaaacctca ttgtttttca aaaactctat ttatttaaaa aaaaaccatt tttaatttat 240
tttatgaaaa acgggatgtt atagaagttg atgaggaaga agcctagctt gtttcaccaa 300
tcacaattgt accacctcat atgcaaaatt ttgaagaatc tttttttcaa gattttgaat 360
acgagcatag cttggatt 378

<210> 5638
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5638

agcttcaaga aaaagatggc ctcatcatat ttcttatttc cagaagggaa ttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccggaat gcaaattttt 120
atcgaggcaa ttgatctaaa tatctgggaa gccattgaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
aacataataa catctgccct acgaatggat gaatatttca gagttttcaa ttgcaagagt 360
gctaacgaaa tgtgggacac tcttctatta acacatgaag gaactacaga tggtaaaaga 420
tctangataa atgcactaac tcatgagtat g 451

<210> 5639
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 5639

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agcttgatgg cacactaagc ctcacatctc atgctaagcg catattgcag aaaattntgt 60
gttgtcgaaa ggcgtaagcc cagcctgctg cgctaagccc cagatgctca ctggaatttg 120
caacttcaag ttgggcttag catgagggtta ggctaagcgc ttggggtttt aaactctaac 180
gtcacgtggg cagcctaagc gcagctctac actaagcctt ccatacaaat ttcaattttt 240
aaaaaaacta aagggttgagt cacttgggtg ttacccaaaa accattagcc tctctgcctt 300
tgctaacctt gagcatttgt gcctttttgc tgcgtgcttg aactgacttg tctgcatctt 360
ccttgcttca ttctgcattt caatcacaat ccaagtaagt ggatacattt ccatttttaa 420
tnttcattct ttaaaccata tgatagatga 450
```

<210> 5640
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 5640

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agcttcaaga aagtcctctc caagagtgac taatgaggct gttcataagg ctgtgagtgc 60
ttattttctg tagttttctg ttcaactgct taattcagtt gagcaagatt tgtaggaaa 120
tttattgtct tgttcactgt tattgatgac atcttttatt ctcttctcag gctgctgcat 180
tgaagggttc tgatcatcgt cgcgccacaa atgtcagtgct tagattggat gctcaacaaa 240
agaagttcaa ccttccaatc ctcccaacca ccacaattgg atccttccct cagactgttg 300
aactgaggag ggtgcgtcgc gcatacaagg ctcacaagta agatatgcct tgagttgata 360
ggttggcttg tctcttgac 379
```

<210> 5641
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 5641

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agcttgggtga acagattaat attccatctt ttatgcagag gcttgggttg ttgattttaa 60
aaatcctgtg tttgttgaat ggtttgaaat gatcgattgc atgatttgag tgaagtgtag 120
```

tgagtaaadc ttatgctttg aatgtgcatg cagagattat aagagaaaga acatggatta 180
 tgatcatgac tgaatgtgtt agttagtttg acagattgat tttgaaggta ctcatagacc 240
 acaacccggg gagggtgtga tctttatttg tgagagaacg actagcattg agtaatgatc 300
 tttgtatgaa tctctaatta tggaatgaat gcatgagtct gaagatgatg aaagtcatgc 360
 ttgattgaac agtctcttat cacaagctt accttatgaa tgattgattt t 411

<210> 5642
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5642

agctntatat aagggtttta ttacctataa ttntgcagca ttgccgagtg ctttgctttc 60
 cttgtatgta caaagcgggc caatccagtc attcatagaa attcaagaga agccagtagt 120
 tcatcttcaa ctacgattac atatcttgac tggaacagtg gtttagtggt ttctacagac 180
 gaaaatcaac accaggggag aatgtgtagc cttcaagaca taggagggtca ttttatgaaa 240
 gtaccaatta ttgtattcca gggtcttctt tgtatgcac tagagggtata tgataatgaa 300
 ttgtgtgttt ggccagcctt tggaatattg tttttggaga tctgaactgt tttgtatttc 360
 acggaacacc tgtctgtgc 379

<210> 5643
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5643

tcgaagaggg tctgagaaca tgaaaatttg attatcctgc tttgatgaat gggaagccta 60
 tggcaaattg agagaataag aatgaggag gaacccatgc tgtgactatc tgtcctatat 120
 ggccaaattt cccaccagct caacaatatc aatactcagc caatatcagc ccttttcatt 180
 acccaccacc ctatcagcca agaacactca atcatcata aaggccacc ctatatcagc 240
 cacanagcct gctgtgtgca cattcgatac caaacaccac cctctacaca catcataaca 300
 cctactaggg aaggaatgtt ctagtaaata agcctacaga attcaccacc attccaatgt 360

catatgctgc ttactcccct attact

386

<210> 5644

<211> 566

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5644

aagaatgact cttcgaccga tcgctctata taantcnant acttanttat aancnanttt 60
tttctctcct ctgcgaggacc gcatgacncc ntgttgatgc ccgtcgnagt accctgcgat 120
cctctagatc aacctgccgc atgcaatctt taggtacaca gatatagtat tacgttcttc 180
gagattccag gctctgtttag gactgtaata tattgatcgc acacgcactc cacatcgacc 240
gattgaaatt gaaaatggca aatcaagcct ggctcttata gactctcaa gactgcccga 300
gaagaccatt cacaagagtc atacctttac agaaacttaa aaccaattta agatataaac 360
acatcttgaa gagttacatc ttttgatgta ttcataaacc cctcctggc agcagacaac 420
aatcacagt accgactaca caggctttac gtgaaaggac ggacccttcc atctgaatgt 480
gaattccccg tcaaggactg gcatccatac catactatga tgcaatacac ctctgaattg 540
atgaacgcgg aatcatctg aaaccg 566

<210> 5645

<211> 409

<212> DNA

<213> Glycine max

<400> 5645

agcttccttt ttccctttga ttaggattat ctttgaagcc tactgctgta agtttgcgga 60
gcttctgaag tcaatttctt taatgtgtag atgattctgt cgatttcaaa tctacctaga 120
aaagatgctt tttgtcgata gtttgctcct gcagtgttgc taccttggag attctgctgt 180
aatgcgtaat gaccattact atataggatt ttggcttaac tatattcttg gacactaatt 240
tcgtgtatta tctatgtgct gtcttattat taacgaacaa cacatgttaa gatggaaatt 300
ctcaaaagga ccaactcgac tacttttaaat cctaggttga gatcgtagca actaaacatg 360
aggaaagtta actttttatt tctttcagat aaaggtcact caatatgat 409

<210> 5646
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 5646

agctttataa caatgagctg ggaccgaatt tatgtcagct tcagtggtag tatgcaaaaa 60
 attctcgcac atagcaccat tcaggcaagt ttctacttcc tgaaatacat tatgtaggaa 120
 tatgatgggg tcttcaatgt cacacatfff atgttttgaa aatctatact tatagcatga 180
 tggcatatta tcacttaatt taagccttaa caaagtattc tgtattctgt atgcttgaaa 240
 tttgttttat at 252

<210> 5647
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5647

agcttgtata ggctacaaca agaaagtnt tcttaagaat gaaaacgggt aatatagata 60
 aattggccat ggtaaacaat tacactatca taagtgtgtt gctcttttcc tcattgcttt 120
 tggttttcat gagtgcccaa caacatcatc atcgtattac tttgctttta acagaggcca 180
 gacagctgct tctgcaaata agttgacatt cgagaataaa atcatgtaat gtaattcatg 240
 cccctctatt catgtgaata cttanataca cgcattgcttt gtttgcaaatt ctctgggtag 300
 aggggt 305

<210> 5648
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5648

agctntgatg gaggacccta acttaaaaag tataccaacc cactgaaaga atagttccct 60
 acaggagtgc tgcttcccta tagaggagtg cggtagaggg agcatggcta agtgacatg 120
 agagagggtta tttttgttct tccgggtgcc ataacaacaa taatcttggt atattttact 180
 ccaaaacaca aggttggttt taaaattatt ctgttattcc ttttcaaagt agttttatat 240

ttaaatgttc tttgtgctgt agataaaaac tgaaaatcag agaataaagt tgagtaagca 300
ccagttttca tgggggtttt gatagtagta ccttgggcgg gacatgaa 348

<210> 5649
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5649

agctnttaac tgggaggtcc gattcaagcg tattatatat cgagacgctc gaaattaacc 60
aacggaagct ctcgagaaat tcaaatggtc ataactttta actcggaggt ccgattcagg 120
cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaatga 180
tcataacttt tcacacggag gtccgattca tgcgcataat atatcgagac cctcgaaatt 240
taacaacgga agctctcgag aaataccaag ggtcataact ttctactggg atgtccgatt 300
caggcgcata atacattgag acgctccaaa ttgaacaacg gaagctctcc aaaaattcaa 360
atggtcataa cttttcac 378

<210> 5650
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5650

agcttcatga tgatgaatca agttgattct ttagctgtg atgatgacaa agatgatgac 60
caaaagccca agagaatgat ttcaagattg agtcacaaag ttcaagatca agtgaattt 120
caagcttcat gagaagaaat caagaagatt caggaatcac gagaaatttg atttctagat 180
tcatgagaag atgaattcaa gattcaagag aagacatcaa gaagacttca caagggaagt 240
attgaaaaga tttttcaaaa aacaaacata gcacaatttt gtttttcaaa agagtttttc 300
tcaaaatttt ctaagttacc agagtgtnta ctctctagta attgaatacc agcttctgt 360
aatcgattac cagtggcaaa gttcgatttc at 392

<210> 5651
<211> 363

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5651

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agcttgagat gaggaagtgt agaaggggtga tatcttcctg cttttattgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccg acccaccctg ggcatagtcg gtcagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaagac 240
cacaaagcaa agaggcttgt ggtggctggc cagttgtgaa ttttgtgtga tatgtggatt 300
atggcctctg gtaatctatt accaaggggtg ggtaacngat tacaaggctt agaaatgaag 360
aca 363
```

<210> 5652
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5652

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agcttctcat ggctatgaga ggctaaacc tcatgttgg gagcttggca tgccaactct 60
tggtattcgt ttagcctatt tcatacatct ctgatcttaa tgcaatttat tatttttctc 120
tttgcaaaga aatttgggag aaaagaataa ataaattatg ctcttcatgc gggaaatcaa 180
atataaagtg tcttagtaga tgtgggtgga aacaaagatt tcattagata gaanaaaaat 240
cattaacatt gcatacacaag tagttttggc atgctaggct ccaacataat cacattctga 300
attcatcttt cggcatttaa attattg 327
```

<210> 5653
<211> 383
<212> DNA
<213> Glycine max

<400> 5653

```
agtgcactgc caaagctttt attccatcat gtgtttgtgc attgaagaac tccaattgag 60
gcacatacat gaaaacctct gatgctcctg tgagcacata ttgtggcact tgccagaaaa 120
tggaagtga acttgacca tcacaattgc tacaatcttt tattgcaaac ttcaacctga 180
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atttctctac caaccctgct gagaccatgg ccatgattgc aaggactaga ccaattccca 240
tcctttgaag ctctgtgagt ttggatttca ttactttggc cacaaaaggg tcgagggcgt 300
gcctatagat gaagatgaag aatgccacgc ccaaatgtc gaagctggac atgcttgctg 360
gagggatttt gaaacttgaa att 383

<210> 5654
<211> 435
<212> DNA
<213> Glycine max

<400> 5654

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aatctcctta ggaaagacat ttttaaattc ctacaataag ggttgaacac taggagaaat 120
agaaatagta aactcattag aattatcagt agaaatttta ctgtctttga aatactgtag 180
attgagtggg tcatgagcag gtaacacttt ctcacttca ctgcctctg caaaataatt 240
aaattttctc tcatgtgtat cactctctct cttatgtgta tcaactcttt cctcgggtgt 300
atcactcttc tttttcatat tcctttgagg agcctcacta ttttctttct cttgatctct 360
cttttctctc attctgagtt gggcatcaca cacttctcta ggggatagag gtttaagagt 420
aaacgtggaa gattt 435

<210> 5655
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5655

agcttgccag gaagaactgt ttatgagatt tagaattatt gcaggactca cttcaagaaa 60
aagataaggg ctcacttcag ctaaagatat gaagaagact ccagaatata agtggactat 120
gatgtagtta tttctggtta taagtagaca actatcattg ctttgtgtac ccctataaac 180
tgtctacatt atatagaatc atgatataga gtttgggaca tctagtctcc cctgccaaatt 240
aatccaatcc tatgattagg aaacatgaca aaattaatta aaatctattc atctaacct 300
ctctaaattg agatgcaaaa ttgtactata aagggctaac attcaggtat cttcacaatt 360

catccattaa aattgagtat ttcagtccac ttgaacanaa tttcagaaca ttcategatc 420
cat 423

<210> 5656
<211> 274
<212> DNA
<213> Glycine max

<400> 5656

agcttttatag gaagcactat ggtaagagg tttggtttca aaactacttc aagtgaaaga 60
gccaaaaatc actgtagtac actatgacag tcaaagtgc atgagtttga acaaaaacca 120
agtgtatcat aacaaaacaa agcatgtgaa tgtcaagtat cacttcattc aagatatgat 180
caatagtaaa gctattgcta ttaagaagat atctacaagg gagaatgttg cacacatgct 240
cacaaaagtt ttaccctatg agaaggtcaa ctat 274

<210> 5657
<211> 338
<212> DNA
<213> Glycine max

<400> 5657

agcttgtagc atatgcaaac ggcaataacg ttttactcgg atgttcgatt gagtcacgta 60
atacatcgaa acgctcgaaa ttgaaaacag aagctctgtg caaattcaaa cgacaatata 120
ttttaactcg gatgtccgat tgagctccgt aatatatcaa gacactcgaa attgagaata 180
aaagctctga acaaattcaa acgacaataa ctttttactc ggatgtccga atgagtccag 240
taatatatct agacactccg aattgagaat agaagagctg agctaattcca acgacttta 300
cttttactcg aatgccgatg gcgcccgcg tgtttaca 338

<210> 5658
<211> 342
<212> DNA
<213> Glycine max

<400> 5658

agcttttggtt tagttattga ttaattaata tcaaattaca atgggtggcg tctactgtga 60
agtttttcag aaatggacca ctggtgaggt aagccttttg tacctttaat aggcggtcat 120

cagcagggtga agcacttcat tggtttgtaa aaaataatga aaaaagatat aaaattggag 180
 tcaggggtaa ttttgtaa ataggagtagta gcaaccaa atataaattaa aaaagagatt 240
 ttttatcttc aactttttca tttatattga atgcgtgttt ttttttgaaa tggatagagg 300
 tcgaggggtt tgattcagga tcaaatgtat tgggggggtg ta 342

<210> 5659
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 5659

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 acttggtagt attttcaaaa caaataacca atgcacttac atggattgtt cttaatactc 120
 atgggttata ttggttggtc cataaccttt ttttcttga tttaaaaaga aacctttttt 180
 ttctctatat ttttcttaa gcaataaag tgtatagttt aagaatcgcg atattagggt 240
 atttaatgtt gtcatttatt ggttggtttt tttattatca atgtaatttt ccatgcatat 300
 gtattatact atcatataca aatattctag atagcgatgt aggatcttac agtccgagtt 360
 acaattctcg agtttcaa attttaactcc catccgatct tacgaaaatc tcgatttgac 420
 accttgctct atatatat 438

<210> 5660
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5660

agcttaagct cttcaacta cacaaggctc ttaatatattg aagagtatcc tagtggaacc 60
 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctgggggca tataggttca ttccatcact gtctagtcca agtctaagat ttcttggctc 180
 attcccgaaa tccgataca aaccatcaat cttcttccac tgggagcaat cagccggatg 240
 acagaccatt ccatcagaaa tcttccatt tgcatgtcat gtaaggcttt ttgcgtcatc 300
 ctggttagca aagagacgct tannaccttg gaataattga agataccaca naaccttcgc 360
 tggnggaccc ttgttgaggt tntcatcaga aatgctntcc tcttaatcct tgacttt 417

<210> 5661
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5661

agctagacgt tgatgtagct tgtggacatg ttcttgatga gctctattct accactgtcg 60
 cttacataag gctaacagac tctattactt attgtggcca ttccacctcc cctaaaagat 120
 taaacactcc attgggattg ttgtactgtg ccagatggaa gaacagtatt cgtgaaaacc 180
 ccgctcccgc cgtcaaactt ctatactcgt gctggattaa ccattaccct aacgtatgag 240
 acatgcttct ctactctgcc ttaagcgta cgactatggc tgctc 285

<210> 5662
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5662

agctntgatt tttgttctga ttgcatgatg ctatgatagt tgatagttaa aatagtgtta 60
 ggaattatat tttcatacaa tgtatgttgc tctggtagg atttgatggc ctaattgtag 120
 aagcaagctt catgatgatg aacctagcaa ttttgacgat gccaaaagac caagtgattg 180
 attcaagact tcaagatcaa gcatgatgaa tctaatacaa gattcaagat tcaagagaag 240
 aaatcaagaa gcaataagtc aagacttcat atatgataag tattataaga ttctttcaaa 300
 aacaaaatag cacagttttt gtatacaaaa gaattttctc acattcttta agttaccaga 360
 gtgattactc tctggtaatc gattacctgt tatcagtaat cgattaccan ttgtcatacc 420
 c 421

<210> 5663
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5663

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtagaacc 60

ttcacccgac gaagacactg acaaaaactt atctttctct tcttggacaa agtatggcag 120
gctgggggca agtaaatttt ctcccatca gaccttggat gcaactatga tctgataccc 180
atatcagtta gatcttgacg ggtattcaag ccatccttcg tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacacca gtacgaaaga tcaaagaaaa tggacctctt ctcccatatg 360
caactctgac ttttatactc tctttgggtc ttccacata cagngntcag gtgttgaacc 420
cgctgatata cctgctcacc 440

<210> 5664
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5664

gcttatgttt gccttattgc aagtcccact gaggttaaac tctgtgctta aaatatcttc 60
acgtccacct gttaatatat catcttgtaa aactgatgca gaggggttta cattatctac 120
aatctcagct aggggttctc ttatatattga gccagccatt tctttggaat caatgcccac 180
ttggcatgta ccagcaatct catccacatt ttcattntct tcagtaatgc agggaaggtc 240
taattttaaa ctcttacgct ttctgaact gcctaagttt gaattaattc gatcccaaag 300
agtttgaact gaagaagtgt actgaccctt gcaatttggg tgcaatcaga aagggacctc 360
ggc 363

<210> 5665
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5665

agcttgttac aaataaacat attaataact taagtgcagt agtgcacaca atgggagatg 60
tgctcttgta aaggtgcata ccacgagagg caccttcatt aggacacaca atgggagaag 120
agccaaacca tattttcttt agagctaata tgcaaaagga ctggttggaa cagagccaac 180
atgttggttag acaggttcaa acgatgtcaa tctgtggtaa gagtagggct ggaacagaat 240

tatacagttc gaaatgtagc tggaacagag tgataaaagt gagaagaaaa acaatatatg 300
 ggttttgtgg ggttgaataa ctatttaatg agactcatan acttgagaca tganactctc 360
 ttcaaggtgg ataccatggc cctgatatgg gttt 394

<210> 5666
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5666

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 gaagaaagtt atgattatta aattaataaa ctatttatatg gtgttttaaat gtatttaggt 120
 gcctaactct ggaactcttt caaccttgac atctttatat ggtgttttaa tacatttgga 180
 ttttgaataa ttggtgaaat taaaatgacg aaaataatgt tttataagct gccgctttct 240
 catacacaaa tttttatctt ttatttttat taaatttaaat ataatgtgtg ttgcacttcc 300
 atgttgccat ttgcataaca gtatgcaact gtactgttag ccattgttgc atttattcgt 360
 ttgggttctc tttggcntat atctatcg 388

<210> 5667
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5667

ctatttctcg cacttggctg ttcagcgtgt gtctcgccca tattctacac tggtagcacg 60
 gcttatcaca gagcattcga ctcaggatta tcatacggta gcccatcttc atcgggacta 120
 gggcttcttt ttgtcgtcaa tagcattatc ttcatggcac tgggtttcgt cattggctac 180
 ccagttgctt cagcttcagg taaaaattat tttcaaattt aatgataagc ccttttatatt 240
 agttcaattn tgataacgac aaaactt 267

<210> 5668
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5668

agctttgcac gtatcagtc aagtgtatgga ccatgtcgtg gccaaagtgc tcatcgataa 60
tggttccagt ttaaactgta tgcctaagag cactttggag aaattaccat tcaatgcttc 120
ccacttaaag ccaagttcaa tgggtggttcg tgccttcaac ggcacccgcc gagagggttag 180
gggaaagatc aatctcccag tacaaatagg ccctcacacc tgtcaagtca ccttccaaat 240
aatggatatt aacccncct acagctgtct 270

<210> 5669
<211> 376
<212> DNA
<213> Glycine max

<400> 5669

agcttttgca tgacataaca atagcatcat attcttgaag aggctcactt ttctgagtca 60
tcatcttcta attcagctat atccagggaa tctcaaaca tagaaattga agccgaagtc 120
atggctgaag agcaacatcg acgagtgacc ctggaagatt actcaagtac atctgtgccg 180
cagttcttta ctagcattgc acgaccagag gttcaagcac agaataaac ctatccacat 240
tcattaattc agaacaattt gtttcatggt ctgccaatg aagacccgta tgcatactca 300
gccacttata ttgatatttg caacactgtc agactggctg gcttgcttga ggatgctcgt 360
aaattgagct tgtttc 376

<210> 5670
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5670

agcttcctct ctaagcttct tatccaagac actctcttgg tggatgaagct tttccttcca 60
tggcttattc tctagtggat ggcacctct ctcacctctt cttctttatc ttctgctaca 120
actccatggc taaaaatcac cattgaaaga ccttattgaa gctcaaagat ccagcctcca 180
taggagcttc tcaagcaagc ttccatcact atcatatctg aagaagttga tataaatgtt 240
aaaaatgagg aagatgttgg cgtgaaagta gaacacattg attgctctta tgtctttaat 300

acttctcagg tatttgtcta atttgggtgtt ggaacagtaa ttatattaca taaatgtgca 360
 ttgatctcag actttctttg aattgtgtta tagttgggtg ctactcgtga tgaagtttta 420
 cattgngcac gatcgggtggc tcatgaaa 448

<210> 5671
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5671

agcttccatc aggttattaa agctatcctg atgactttcg aactcgcacc aggtctcaaa 60
 attaactttg caaaaagcag ttttgagca ataagagtgc ctgatcagtg gaagcaactt 120
 gcagccaatt acttgaattg taatttgttg gccattcctt ttgtgtactt gggcataccc 180
 attggggcaa acctgaggcg atgtcagttg taagatccca tcattaataa gtgtgagaga 240
 aaattagcta agtgggaagca aagacacgtt tcctttgcgg ggagagtgc cttatacag 300
 tcgggactaa catcgattcc catttacttc ttttcattnc tttagggccc ta 352

<210> 5672
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5672

agcttgagat gaggaagtgt tgaaggggtga tacttcctgc ttttattgnt gaccacagag 60
 tgggtacctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggagctcaac agataaaagg aaaacaagac 240
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgac atttgtgtaa tatgtggatg 300
 gtggcctctg gtaatcgatt acaaggctta aaa 333

<210> 5673
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5673

gctttggagt ttccaagagc caattcgtct tcttcttttg ttcagacttc ttctggcttc 60
 aattcatcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccatcct tgctttccag 180
 tattcatagt tggttccatc taggattggc ggtctgttca ctggtcctcc ttctttctcc 240
 atgttcatca gaatttatct ccctagatct cactctgtga tttcgagtgt ttgctctgat 300
 accaattgaa attctgatac tgnngacaga tgtcgtaccg gatgtcacga catctcactt 360
 cagaacatgc agattagatg cgttcgtctg aacagattac acatgtaa ataacacaagag 420
 gattgttacc cagttcggcg caacttcctt acat 454

<210> 5674
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 5674
 tagcttctgt attaattaaa tatgacgagt atatgtatca aaactttgga cagaacgcaa 60
 catcaatggc tgactacatg catatagtgt tgactagtta agccagcgac ttgcaccagg 120
 catcattaat ttattcctct aaaagcaagg gaaattgaaa atgaacaaaa aatatggatt 180
 ccaacaaaca taccacatga acccaagatg agatgagaga gcccgcaatc gttggaatct 240
 tgcacttcat cttttgcaaa gcttgagtca ccaaccttta attatataat agaggggttag 300
 catgccataa acaatcctaa tgtgaagaag aaggtgcaat acttgccctc gcagagaata 360
 tggaagtcct tcttcttctt atatgacaga agagaagatg gtagtctagc ctacgcttta 420
 gaaatatggg atctatg 437

<210> 5675
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5675

agcttattct aaagataaca ttaacttatg catttcaatt tttgtttaaa attatatgaa 60

acatcttcta taatcaggtc aaatgaaaaa ccattatttc gaataacttaa atgatcaaaa 120
gatttttagag ttgcgttccc agaaaggat tcaaacttca actaaaaaat acaatagttt 180
acagactata tccatatatt ctcgagcaaa agtggttattg ataatatgaa gatgaagtaa 240
agcaaatagc cgcgagctac tcatcatatt ccattaagag tgacaacaac tgtacgcgga 300
gtaggataat cccgatgctc acanagccat ataccctaag caaaatggaa gattaaaatt 360
tattaacaat tgtgaagcta taataatcta gactcacggt tattactatt aatat 415

<210> 5676
<211> 367
<212> DNA
<213> Glycine max

<400> 5676

agcttgcttc tacaactgtg tctcttttcg atgatgacaa cttctgagat caagatacat 60
acacacacac tttttgctag tcgatcactc acataaattg ccattctccc gctttgtttt 120
tgaatgtatg cttctcttaa aatctaagcg attactcatg tgagttcttg atttaatccc 180
tatttctctc cccctttggc atcaacaaaa agccaaagtg cgtgacatat ttgaagcata 240
cacatataac taagcctcca taccacattc atggaagaat atcaaccaca tcatgaagca 300
agaaccatga agtaacaacc ctgaatagat taattataaa accacatagg taataacata 360
cttaata 367

<210> 5677
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5677

agcttacgca agaattnttt tataaccaac tatttagcat tagcaaaaaa taaactctaa 60
tttgaagtta gaattgcatt tgcacaaaca aacaacgata tttaacataa tgtcaactac 120
gtggcattta atgttgacga gtgatttgat cgttttaaaag tagcaacaag ttagccgatg 180
cttataagat atttattttg catagtaaag ctatttcaaa atggtttagc acattaatgc 240
atgattaatg taattgctga agcaacatat gaataaataa aataacacac tttctcttgc 300

catcattttt ccttcaccct ttgtcatcct gctccctggg catactacca tactntgntt 360
cgtnccctatt cattctcctt catatcacac a 391

<210> 5678
<211> 418
<212> DNA
<213> Glycine max

<400> 5678

agctctgctg ttcaattatt gtatataatt tatgaatata ggggtgaagaa ggagatcaaa 60
attagtgttt aaaggacatt aaagactcga tgaacataat atttaagata ggatttaaag 120
aacaataatg atttatattat gatatgacta acaaacatta tacacttgcc ttgcgataac 180
attgtgtgtc aaggtagatt cttcactaat ttcatgtgtt acaccttaat aaaaaagcaa 240
agcttttaaat aatggcttct ctccttcaac tgcgttcaaa taagcactca atattctaatt 300
tcgaatatgc agcatcaaca attgcttgct gcaatgtctc ttaagttagt tggttaaagg 360
tttttttttt actactgaaa atggaatgtg gatgcatatt ttatcctgag acatattt 418

<210> 5679
<211> 263
<212> DNA
<213> Glycine max

<400> 5679

agcttgtcctt tggtttagac atgtttggat ttgatttggg actttagtagga tttgatttgg 60
gcaagattgg atgagaggaa gggtagtttt cgaaatctgc acttatgcag aatttttgcct 120
gtaaaattgt gcagcagaat tttgcacaag tgcagaaaaa tgcttgtgtg tggttggctg 180
tggaaagtct agtgcagaat gagttctgga tggttgctag tatatcccaa cgggtcaaaat 240
gtaggcttat gtactagaga ctt 263

<210> 5680
<211> 376
<212> DNA
<213> Glycine max

<400> 5680

agctttacag cagatttttag taatgaccct ctaacctaga attaaaataa cttaatgcc 60

ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120
 aagtcacccc caacagccaa caagtcagcc accatttggt ctccaaaag gctgatgcct 180
 attggtgcca atgggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240
 gattaacca aacatattt ttggcagcca actctcaagg attgggcatt attagacaaa 300
 ctaacactct aaaatgagac aaggtagggc atttagtcct cctcatttgg catgaacact 360
 cacaccttgg actttt 376

<210> 5681
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 5681
 gcaagcttgt ggttgttgtg ttagtattct atccttgggt tagatttcac aaagtctctt 60
 aagtcttcat tttgatgttg cacaccaa atctctcaagg acattctcag ctttccactt 120
 gtcattctctg tgtgtggcag catatggaaa gtgagatgct atcaacatca gtcttcta at 180
 gtgtcctctg tatgtgtggc agcatatgaa agacatgata ttgtctttga ggtatagtag 240
 agaacaatta tgaacttcag tgattaaagt caaaatcttc atcatcttga tgcagactct 300
 gatgaaactt cattctgac ctgtatgagc attgcaacct ttgaaacatc ttatatgtaa 360
 ggccat 366

<210> 5682
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5682

agcttcccag atccgatcac ggaaggactt gtcaactgcc ttcattaggt agtaccagta 60
 caatacggac atggctcccg atcggaacca gcttcagagt atgactaagc gagagcatga 120
 gtccattaag gaatatgcc aaagatggag agatctcgca gcccaagtcg taccgcctat 180
 gatggagagg gagatgatca caattatggt agatacgta cccatattct actatgaaaa 240
 gctgataggc tacatgccag ctaactttgc ggatctcgtc ttcgccggag aaaggattga 300
 atccggacta cgaaaaggca agttcgaata tgctgccaac atggtcccca acaacaacag 360

aagagcccca gtagtgggtg cgaggaaaaa ggaaggagac gccacgcgg tcaccacogc 420
 cccgacgtgg atgaaagcac ccanaatat 450

<210> 5683
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 5683

gagcttgttt tgatgcctga gaacacaaga gtgggtgcat attgtgtgaa gctacttttt 60
 ttggccagca atcagctatg agccacgcta taatagtttc catacaccta tacgtgtagg 120
 aattttgttc atcacggaca tgtaagtgtg gaataggtag caaaatacct ttggcaattt 180
 acactttggg tatggtagca aaatacttgg atgtatgtac atgtaatttc tggtagtcaa 240
 aatgtctcac aaaaatatat atatatgttg catgttatgt aaagaaatac cttacaaaga 300
 tacctttgaa tttgaatgca attttagtca gcacaagaat atatacttga atttgcattg 360
 ggcttt 366

<210> 5684
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5684

agctcgatca aagcaattat ctaatcattc ttatccactc atatcataca gttgctcatt 60
 caaatcattc tcaaacactc atttcataaa aaacaatcta ctgcataatca ttttcaacca 120
 attcactgtt caaaccagct ttttgtacaa gcaaacaact caaagtacta aaattttaaag 180
 aactgaaaca taaaaactga aattttaaag actgaacata aatcataaaa taattgaaaa 240
 taaactaaaa tgttcaaaat gcacaaattt aaatgtcctg cccctgtggt tgctcctgtg 300
 catgctcatt gagatccaac acctgagcag ctggtgaatc ctgagggata ggctactcta 360
 gctcagatgc tgnngcagat ggtatggcat catcacgtat ggggtgctgga gatggctctg 420
 ggatctgggc tgtggaagtc tcatcctcct aagccacgt 459

<210> 5685

<211> 448
 <212> DNA
 <213> Glycine max

<400> 5685

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agcttaataa atctatatat ggttttaaataat atgcctccca tattttggattac cattaagatttc 60
atgggattat ttcttcattt ggattttatgatg aaaaccccat ggatcaatgc atataccaca 120
aggatttagattgg gagtaaaata tgattttatcttg cattttatattgt agatgatatt ttacttgcac 180
ccaatgatcg gggattttatgcta catgaggtataa aacaatttatct ctctaagaat tttgacataa 240
aggatattggg tgatgcatctct tatgtcattg gcattaagat tcatagagat agacatctcaag 300
atattatttagatg tctatcacag gaaacatctata ttaacaaaatat tattagataca tattcgtatga 360
aagattgatttc accagatttgattt gatcctattg tgaaaggattga tagggattataat ttgaaccaat 420
gcccaaagaa tgactatttgag agatggaaca 448
```

<210> 5686
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5686

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agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggat ttgatggggc 60
ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttgatttgtg gatgatttct 120
ccagatttac ctgngtcacc tttatcagag agaaatcaga aacatctttgaa gtattcaaag 180
agatttgagattct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcagattca ctgaactctg cacatctgaa ggcatctactc 300
atgagatttctc tgcagccatt acaccacaac agaattgggat agatttgagagg aaaaacagga 360
ccttgaaga ggctgctcgg gtcatgcttc atgccaataga ancttcttat aatctctggg 420
ctgaagccat gaacacagca tg 442
```

<210> 5687
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 5687

agcttctcca tatattattc ccctgaatcg tgacttccgt ttgaaaagtt atgaccattt 60
gaatttctcg agagcattcg ttgttcaatt tcgaggggtg cgatgtatta tgcgcctgaa 120
ccggacttcc gtgtaacaag ttatgaccat atgaatttct caagagcttt cgttggtcaa 180
tttcaagcgt ctagatatag tatgcgcctg aatcggactt ccgtgtgaca agttttgacc 240
atgtgaattt ttcgcgagca gtcgtgggtt aatttcaacc ttctcgatat attatgcgcc 300
taaactcgac ttccgtctga aaaagtatga ccatttgaat ttctcgagag cattcgtttg 360
ttcaattcaa gcgtctcgat gtattttgcg cccgaatcgg acttccgttg acaatttatg 420
accatctgaa ttt 433

<210> 5688
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5688

agcttcatta agaggctttc tcaagaagct ttctcgtggc ttctttgaaa aactttctca 60
agaggcttct ttgagaagct aacgctntaa ctagtaacac ccttttaata actaaactca 120
cctccttaaa aataattacg gataaaaata acacaacaaa tataatcaaa catcaaacat 180
aattactaat aatatgtaga tatatatatc aggggtgttac acgccatatg atgtgtaaag 240
taagggaat ctcttggttct tgtttattct gaagttaatt tagcttttat acctaaagat 300
acttgatgga tagattctgg tgctactact cacataagtg taaccatgca gggttgcctg 360
tggatccgat tgccaagtga tgatgaaaga ttcatatttg ttggcgatga caaaaa 416

<210> 5689
<211> 297
<212> DNA
<213> Glycine max
<400> 5689

agctttaacg aatgtaatac acatcttctt tattctttgt gattcttgac tccatttcat 60
tgaaccgat atccacttgt aattccaaat tgtcaaact ctcaccaaca aagggttgaa 120
gaccatcaaa cctgtctaaa atctttgaaa ggagagatga atcctctcca tcatgtcctt 180

cttcaccaac atgtcgagta cctttcttca cccaagaacc atcttgttcc tttcgataac 240
 aaaaagatgc tatgactgaa gagcctataa gataagatct cttgatttga acataat 297

<210> 5690
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 5690

aacttgtatt gagatcttgc aaccgccgca tttagatata gatgcatacc atgggccagg 60
 gtatttggaa accatgatga tgcctgatta tgagtggcca ttgatgtggc ggtctgctcc 120
 tgtaatacct acaaactact tgtactcata acacatcttt ctattcacgt acccaacatt 180
 atatttatcg atagagtaat taccctgata ccacctgaaa tttttttcaa atttcacata 240
 atat 244

<210> 5691
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 5691

agcttctcct ttcttttcta taaatagagg aaggagggaa gaacaaaaat gttcaaccct 60
 cctggtatct gagattcact gaaaattagt tagaaaaatt gtttccatga agaaaatcca 120
 agccgaggcg cttccgtgac gttttcgtgg gcgattttgc gaagattttc aaccattctt 180
 cgtcgttctt tgttcgttct tcgacgttct tcgggcttca tcccggaagc tcccataatt 240
 gaatctttca tttcattct 259

<210> 5692
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 5692

agcttgtggt tgttgtgtta gtattctatc cttggtttag atttcacaaa gtctcttaag 60
 tcttcatttt gatgttgac accaaatctt ctcaaggaca ttctcagctt tccacttgct 120
 atctctgtgt gtggcagcat atggaaagtg agatgctatc aacatcagtc ttctaattgtg 180

tcctctgtat gtgtggcagc atatgaaaga catgatattg tctttgaggt atagtagaga 240
acaattatga acttcagtgt ttaaagtcaa aatcttcac attttgatgc agactctgat 300
gaaacttcat tctgaccctg tatgcgcatt gt 332

<210> 5693
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5693

agcttatgcg catatttcct tacaaacggt ctcttgacaca agacattcta ttaacccaaaa 60
aaaaaaatgc acccatatac aatcaaggca gcttcggtac ctagattatt tacacgtact 120
tccaagggtgt atttggttact tacatcacac acctccttgg cttaaattcac atacatgcat 180
actcaaagca ttttggggta ccaaaaattg cacatgtgca catcttggtta tttctaatac 240
ctatacatatc acaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 300
tatgctcttt tcaagttttt gctacctaaa gccgcatgca aattcaagta tattttcctt 360
tgctgactaa aatngtattc aaattaaaag gtatacatnt tttggtaatg tatcttcttt 420
acataacatg caacatattt atngtatatt tt 452

<210> 5694
<211> 441
<212> DNA
<213> Glycine max

<400> 5694

agcttgaggt tgatgttgct tgcggacatg ttcttgatgg tttttattca accacttctg 60
cttacaaaag gctaacaaaa tctattcctt agtgtggcca ttccacctcc caaaaaatat 120
taaacacttc atttggattg ttgttctggt tcagatggaa aaacagtatt tgggaaaacc 180
ccgctcccg cgtcaaattt ctattctcgt actggattaa ccataaccct aacgtttgag 240
tcatgcttct ctactctgcc ttaagctttt cgattatggt tgctcttcga aagaagctac 300
catggctttg attaacaatt tcacagaata atgtctgttg tacgtgcttt ttattttcga 360
cgtcgtgaag actgtgcttt tttctgttgt ggcttgaaag gaaacatgga ccaatagaaa 420
taggcttttt ttttcattat a 441

<210> 5695
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 5695

agcttagagc taattcaaac gacaataact ttttactcgg atgtttgatt gagccccgta 60
 atacatcgag acgctcaaaa ttgaatgttg aagctcgcag caaattcaaa cgacaataac 120
 tctttactcg gatggctgat tgagtcccg aatataatcga gacgctcgaa attgaatggt 180
 gaagctctca gcccaattcaa acaacaataa ctttttactc ggatgtgtga ttaagtcccg 240
 taatacattg agacgctcaa aattgagatg ttgaagctct cagcgaattc aaacgacaat 300
 aactcttttc ctcagatgtc tgattgagac ccgtaatata ttcgagacga tcgaaattag 360
 att 363

<210> 5696
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5696

agcttatcac tacttgaaga acataatata tttatgaagg taatatgcta cagaacaaaa 60
 acaagacaac acttaagtta atgaacttat catttctctt cttggggttag tcttcttcgg 120
 catatattaa ntatgtttat tgcattatag ttgcgcatcct gtgtaacttg taaccaacaa 180
 tatgccagaa tgaaccataa ctcataagga atcaaaagat ataaagcatt agcttgattc 240
 atttattact ttggcctaag ctgttatggg gtataactac aaaacaaaga tgaaattatg 300
 taattgaaaa tgacacaaat gtaaaacatg acctcctata aagctcacia gatttggtta 360
 tataagcata cacagttntg atgttgacat attccatgaa ctg 403

<210> 5697
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5697

agcttcccag atccgatcat ggaaggactt gtcaactgcc ttcattaggc agtaccagta 60
 caatacggac atggctcccg atcggaacca gcttcagagt atgactaagc gagagcatga 120
 gtccattaag gaatatgcc aaagatggag agatctcgca gcccaagtcg taccgtccat 180
 gacggaaagg gagatgatca caattatggt agatacgtta cccacgttct attatgaaaa 240
 gttgataggc tacatgccag ctaactttgc ggatctcgtc ttcgtcggag aaaggattga 300
 atccggacta cgaaaaggca agttcgaata tgcttccaat gtggcccca acaacaatag 360
 aagagcccta gtagtgggag cgaggaataa ggaaggagac gccacgcag tcaccaccgc 420
 cccgacgtgg atgaaagcac 440

<210> 5698
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5698

agcttgctc anagaggtcc aggaaggaca tggcagccga aggaactagt tccgccccgg 60
 agtacgacag tcaccgcttt aggagcgttg tacaccagca gcgcttcgaa gccatcaagg 120
 gatggtcgtt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgattttc 180
 aggaggaaat agggcgccgg cgggtgggcac cactgggttac tcctatggcc aagtttgatc 240
 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
 tgggatatcc gatggtgttg gaagagggcc aggaatgcga gtatggccag aggaggaacc 420
 ggtctgatgg gttcgatga 439

<210> 5699
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 5699

agcttggtga ttagggagag tatttttagca tggaaggcta attaaggtga agtggatcag 60
 agagagagat gaaaattcat gtttttttca tttctctctt cgagatcgcc agagaagaaa 120
 tcaactaatg gccattaga gtggagatat gtggttaatt agaaggaggg gaacaaatca 180

aggatgaggt gacaaggcaa ttccagcaag tgttttcaga atcaaagttc acacgacctt 240
 gtttaccagg tggtgagttt aaacaaatta gccaggtaga tagctctttt cttattaactc 300
 cttcttttga gctggagatc aaggcagcgg tttggagttg tgatgggtgat acaagtcttg 360
 gccctgatgg gttcaatttt caattctcac ggcgtgttgt gaattttaag gcccaagatt 420
 tgttgtatgg tgcattg 436

<210> 5700
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5700

agctttataa aaaaattggg gtaaaattca tcaataaata aataagttgg tgtaattctg 60
 ttataatga acaagttgag gattaaaatt aactaaaaaa ataattattt tagcctgcta 120
 catcaactta atggataaaa tttgtaagtt ttttaaaaat tagaaataaa atatgtcaaa 180
 ctaatttggt gaggataaaa ttcctctaga aatatatcga agggagaaaag gacaatcatt 240
 ttaacattcc atgtcaactt aaaattgaan caaaataaaa aggcgaatgt aaaaatgaaa 300
 ttaagttttt ttaaaaataa c 321

<210> 5701
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 5701

agcttataat atatcgatac gctcgaaatt aaacatcgga gactctcgga aaattcaaatt 60
 agtcataact attcacacgg atgtccgatt catgcttata atatatcgat acgctcgaaa 120
 ttaaacatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggagatccga 180
 ttcgccacat aatatgtcga gaagctcgat attgaacaac gaaagctct 229

<210> 5702
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5702

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agctttgatg tttgtgttga atgcattata tgtaaataga ccaaaagtaa gaaattaggt    60
gcatatagag ctacagacat cttggaattg atacatacgg acatttgtgg gccatttcat    120
gcaccttcac gaaatgggtca acaatatntt atatcattca tagacgatta ctccatatat    180
gcatacttgt ttcttataca tganatgtca cagtctctgg atgtgttcaa aaaatttaaa    240
agtgaagttg ataatcaact caacaaaaaa atcaagagtg tcagatctaa ctatgggtgg    300
gaatactaag gcaaataata cggt                                           324
  
```

<210> 5703
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 5703

```

agctatgcta ctgacaccat atataaccac atcctgagat atacttagga gagtttttgg    60
cgagaggaga cacgttcttc gacaggagac atgttctggg gtttttagaga ttccagtttt    120
tactgtggat gcgcattgct cacgtagaat gaagtccatg tcatgcaagg ttgtttccgc    180
ttcaatctac tatatcattt cctactga                                           208
  
```

<210> 5704
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5704

```

gacgcgtatg aatcatgcta ttacggacct atgaatctca agcttatagt gctcgtcctg    60
cacacgaang tcataggtac gcgataagta tagatgacct cccactctcg taggatatga    120
tgccattatg ctttctacga taacacctgg cataaaaggc gagtggagga acgccccctgc    180
atttacgcat cttagcatat gtgtataatc gtttacggac tttaatatta ctctataata    240
aggccctaca gctttaaatg gatgcattct cgttcacgct tcattgttta ccgcatctta    300
cctgaagaat cttggacctt tattactctg atcctgggtg gtancctatc tgatatgctt    360
acatgtatac ttctttttct aaaaagttga tccgttgacc acctcgctct atgactatta    420
  
```

cctgtgccccg tctatagact actctgcaat gtatcatccg gggataatag atgctgtgtg 480
gacttttctgt aaatagacga ccgtcgccat g 511

<210> 5705
<211> 267
<212> DNA
<213> Glycine max

<400> 5705

tgcagagagt ctgtgatagg ctgcgaaag tgtgaaccac atcagatcag aacgtgaacg 60
agaaccttct ttgctttgct tttttttctc tatctctctc tttctttctg tgtgtctttc 120
ttacaccaaa gattatcttc tttattttat ccaaacctga tcatctaaga tgcattgagc 180
agcaaactcat taatctttta ttaatttatt tattagggtgc tttggatttt ctttcttttg 240
tgtgtctttca gcactaccaa tgatgat 267

<210> 5706
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5706

gcattgaaat cgtgcccctg cgatctacgt gacactatat aagaccttat gcttgggtgca 60
agcttatcgt ctatatcata aacaactcca tcgtctaagg tatactatgt gactaactac 120
gtgaggcata cctnctgtgc acggcgatga ctacgcttct cactgaacct ctggttatct 180
ctattttag tagtactagg ctctgtgtcc gctcacactc tgcgtacaat aaatatcgtc 240
ctcatagttg ccttaaattt gaatcatccg acaaagctac tgctgctaaa gggtttcgat 300
tcagatgagc tactataacc cggattatct cgtgaagtgc attaccaaga taataccttc 360
tgctccttac ttatacgagc tgaactgcga tccagtattg gttcctgcag atgaatagtg 420
actggctttt tactatcgct gactagaggt gaatgtgatg actgacaaag aatatcttac 480
cgagatattt ctatctacag gtattgaatg cccatctttt gacaatgttc aagacgcctt 540
tattaaaacc t 551

<210> 5707
<211> 261

<212> DNA
<213> Glycine max

<400> 5707

tatgcactct tatgtactgg aactagtgag tatattcttc gacatgtatt attttagatc 60
ataagaacca tgttgtgaag ctgctcagtc ggggtatctt ggcaatactc ttgttcaatg 120
ccaaatatgg ctattgacca ctatgacatc caataagaga gtgaccaatt agatagagga 180
gaaggatagg gcgaggggaa ttatgtggga caataaaatg ccaatctaca aatagcttat 240
tgatagtgat gaacaagact g 261

<210> 5708
<211> 597
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5708

caatatcact acactgtgct cctacttaac tctaataatta ganttacatt ntaactatat 60
cttatcacia catgcagnct ttgaaatcga gttcctacca gtcactatan acaacttaag 120
ctacactaac tatatatgcc acgtctaatac tacgatacca ttgtactgaa gttgtctgac 180
cacaatcgat tcaaacattg ttgtggncca agtataatgt atatcgacac ctctagctct 240
ccttcttgca tcttactcat gctgccccaa atgggtattgc tgcacacccc atatgtttaa 300
tgtcaagaat gtatacccag tgctctgtac caaataacgc gaattgatca ttatgatcag 360
atattacatg gaatcgatga aacatcttcg atgctttcat tgagtcccat atctctgagc 420
gaatgcataa gacattgaac tategaatta tacgacccat gaagacactt atttacttgt 480
aaccacaaa agtgtgcgct tgaacatggt accaatctga acgagacaac gttttactct 540
cagtcgtatt ggtccttgca ctaacatacg ctggagatta gaacaatatc tcttacn 597

<210> 5709
<211> 197
<212> DNA
<213> Glycine max

<400> 5709

tgaatcatga gccgttctga gagcttacga cgatattgtg agtgattggt atacccata 60

cgtgcaagag acatcctcac cacttgcata ttttcaatct tacaccatgt tcttctatct 120
 gttgtaaaga ccgctaccta ttaatctaaa gctaaatcct ctgtcggtag ttccttatag 180
 gcacctgctg caaagat 197

<210> 5710
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 5710

agcttgagga gggcgctcatc cacactcctc ttccttccat ctaaggggtg attatatattt 60
 gcctcattgc ggatgataga cgtctccatt aagcgcgtag tattaatcat agacatatat 120
 gcgactaaca tatcccatgc tagatacaag atcactttct catagataac tcattttcaaa 180
 caacattgcc agctactacg gtaagaaatg accaccacaa atgctcattt acatatgcag 240
 ttctatataa catgaacgcg gtcggccttg tcttaaaata taaatatttt tctttcccaa 300
 tttattttct ctctttacct acatcctttt ttccc 335

<210> 5711
 <211> 92
 <212> DNA
 <213> Glycine max

<400> 5711

gggcacgagg tggaagcact acctatcaac tctttttgca tataggattc tactgatatc 60
 actgccaaat atcgttatct tgaataagat tg 92

<210> 5712
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 5712

agctatagga atatgatttc tatacacaag ttattcgtct aaagcgacta acacaatccc 60
 ccaaatttat agttttactt gtctcaagc aaagaaagaa caactcactt gcccttaagt 120
 gataaagaca gcggccaatc aaaagaaaat ggtgtttgat tcatcaagga catcaagcat 180
 atgaacttaa taccatggaa tgcttaaaac aattacttct cacaagcatg tagtttttca 240

aagataagag cacaagtatt agagtcacag ctgaaataag ctagtaagca tgacgaacat 300
 caaggaagga tcatcaacca aaacctcaca gtcattgttt cactcaaact caagtgttta 360
 ggcttattcc ttcataaaca accaacacaa gttccaacct ttgcatttca tctcctatca 420
 taca 424

<210> 5713
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5713

tctccgtctt ttcctataa tagggagcac agggaagaat ttgacgttc aaccctcctg 60
 gtatctgagg atcacttgaa attagtgaat aaaaatcggt tccgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgcg tctgaaacgt ttccgtgggt gattccgtga agattttccg 180
 ccatctatcg ttcgttcttc atcgttcttc gtcgtcctgc ggtcttcaac cgataagttc 240
 ccgaaatcga acttttcaat tcattctatg tacccttggg ggttcccact tgtttcgcgt 300
 acttttattt tcatttcatt tactntctgt atcccctttt gacgtgcttt agtcatttat 360
 ttaagtcatt gtctcgcta atcacaaaat ataataaatc tccaccgatc atttaaattg 420
 taacatttgt taatttctgt taaaatgaaa tccgaccgtt cgggtca 466

<210> 5714
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5714

agctttcaac tgaacttaca atgttccaat tgatttcaaa atgttgtaat tgattacaat 60
 gttttggtaa tcgattacca gtgtgtttga acgttgaaat tcaaattcaa atgtgaagag 120
 tcacatcctt tcacgaaaat gctntgtgta atcgattaca ctgatttggt aatcgattac 180
 cagtgatagt ttctgagcaa atcaaaagat gtaactcttc aaatagtttt tgactctttc 240
 aaattggttt aagtttttct aaaggtcata actcttctaa tggttctctt gaccagacat 300
 gaagagtcta taaaagcaag actttgtttt gcattntata aacatctttc caatcattct 360

ttagacaaca aacttttgcc aattgctttc tgagtctctt tgaacttctt cttctttctt 420
 ctttgtgaaa agctntctaa agttgat 447

<210> 5715
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5715

ngatcaaaac aattatctaa tcattccaat ccaactcaaata catacaattg cttattcaaa 60
 tcataactcaa acactcattt catgcaaaat aatccactgc atatcatttt caatcaattc 120
 actgttcaaa cacacttttg gtacaagaaa acaactcaaa gtgctaaaat ttaaataact 180
 gaaatataaa gcaaaactaaa aagcaactaa atcctgataa actaaaatga tcatgctttt 240
 cacaaattaa actaaacaca atttaaacad cctgctcata ctatggctga tgttcattaa 300
 gatccagtgc tggaactgct gatgaatcct ggataggctg ctttggctgc gtgactgggtg 360
 cacatggatg ggtctctca cggatatgta cagcagatgg ctcatggatc tggtttat 418

<210> 5716
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 5716

tctagcttct taaggaagtc ttctcaagaa agcttctcca ggaagctacc tatcctataa 60
 atagaagcat gtggtacact tgttgtaact atgatgaatg agagtcttgt gagacacaac 120
 tcaaagatca acttctctcc ctttttcttt cttcaattta gtgctcccc ctttcatctt 180
 ctctcccttg ttcttttctt ccattgaagc atcctttcca agcttcttat ccacggctca 240
 tcttggtggt gaagctcctt cttccatggc ttattcccta atggatggcg tctctctcac 300
 ctcttctact gtggcttctg ctacatctcc atggcggaaa atcaccatta aaggacctca 360
 ttgaa 365

<210> 5717
 <211> 589
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5717

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cgcatactgc ctgtgcgtnnt ntcacnctat ntgatanact cgttntcact tttanaanta 60
aannnctaac ccactaacia acagatggan nttganattg atgtcattag ctgacactat 120
acaataactca agactggcta atcaacctga cgttgatata tacagaaatc aactctctaa 180
tttgatgtac caccgatata tcacccatgc tgtaattgaa aatacttatt cactgacaca 240
acaacgctaa gtctggaaga agttgaaacg acgtactcaa gttatataca cacaagcgca 300
gccgcatacc tcgactaaca agtgggaagaa tgcgttgaaa aatatccata tcctatcctt 360
ccacaacaat gtctttaatg gtatgaccac ttcttctggt caacatatcc ttccaaagcc 420
cgtagagag catttgccga atgcttctca atagaaatgg tatctacagt tctcgagaac 480
ccagagacaa ccgaaagaat tctttaattt catgagggtca caacgatatg ttccccctgg 540
ctttgagtga gaaaccctct cttcttggtta tgtacacccc gcgaccgcg 589

```

<210> 5718
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5718

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tagcttcacc ataaaaaatg gtgtcatccg ctttctgttc gatgctgac gccacataat 60
tagcaccaac cagatagcct ttgaatagat tattctcttc agccctgctc ataaccctaat 120
caaacccttct gcgagagata aacaagaggc gactaaggat ccccttgggc aatgcccttt 180
tgagggataa aatcagaatt cggacttcat tcccaaaaca gaaatagagg cggatatgac 240
acatcctttc atccacttaa cccagtgcgg actataacct gttctcccca gcatataaaa 300
canaatagct ccagataccg aatcatatgc cttttcaaag tcaaccttga acactangca 360
tgatcgattg cttctcttat cggcatcaat aaccctatct gctatgacta cactatg 417

```

<210> 5719
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 5719

agggccctct aggcctaagt catgttatgg catttattct aatactcgca agctgtccgc 60
 attcaacaaa tggatcatcat acatacacag actgctatct agaattccatt tatacaaaact 120
 taagcacaaa taccattgag gcattacacc gagcacttgg tggacgcact attgggtacc 180
 aacaacacag gaatggggga aaagtggctt gcccacatcat cttagaacac gatctatgcc 240
 taaagccatt cctcacacc cctcatatta tagaaacaaa gcataaattt gcccacaaatt 300
 gtctcacg 308

<210> 5720
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5720

agctntagcc ttaggttggt caccatgttg ctccccctat ctctaacaat ctcccccttt 60
 ttggctttga tgatgccaaa catgaattca acattgagtg catttgaaga gtcttgagat 120
 tggattggag aacttgatca cttagtctta tcttcaaaaa gtcttaacac ttaggaagaa 180
 gataattcat catcattatc atatatgcc atatatatat atatatatat atcaattcat 240
 catcatgtat atcaatcaag aattcagtca atato 275

<210> 5721
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5721

tctcaggagg tgaacttagt tatgagaggg gtgtgtgtag ctaagctcta gcttcttaag 60
 gaagttttct caagaaagct tctcaaggaa gctacctagt ctataaatag aagcatgtgt 120
 aacacttggt gtaactttga tgaatgagag tcttgtaga cacaactcaa agttcaactt 180
 ctctcccttt ttcttccttc aatttcgtgc tccccctct ctctttctct cctttttct 240
 ttctctccat tgaagcatcc tctccaagct tcttatcaa ggctcatctt ggtgggtgaag 300
 ctctttcttc catggcttat tccctagtgg atggcgtctc ctctcaactc ttctcctttg 360
 tcttctgcta catctccatg gtggaaaatc accattaaag gacctcantt gagctcanag 420

atccagcctc catagaagcc ccac

444

<210> 5722
<211> 362
<212> DNA
<213> Glycine max

<400> 5722

acctgccgca tgcaagctag atttgcgagt tgatgttagt cttactttca ctttggttat 60
tactcatttc attcaaggaa acctccaaag aataacgtca gattgattct ttttgattat 120
tttattcaaa gatattttga ttattttatt attatttcgc tttttttggt ttaaccgagg 180
ttacaatgta aatgatcggg tagattttgc tttaacagtg attaaacgag attacaacgc 240
acatgatcga ttgacattca ttttatcatt tattacgcga gataacggct tatacgatcg 300
gctaaagctt ggtaaaaacg gaagaagata taaccgaaca tgaacgagat gaagaccaaa 360
gc 362

<210> 5723
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5723

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cgaacataaa ctaacttagg tggcccgtgg caaattaaag ggaactgttt attcttaatc 120
gaggaaaggc cgtatcgcac ttcagaataa cggtaattca tactatacaa tcggatcgcc 180
atztatagag ccatgatagc ccatatttag gcatgtatgc tcgatgaccg cttaatcgag 240
taattgttgt acaaccattg tgtaagacaa caataggatg ggggcaaaga ggctcgatgc 300
aacgactgat aacagaatct aagtatatat gaagatcctg ccacctctct attaaagaag 360
catacactaa tttgtctcaa attgctgctg gagtggccag tcatagacca tcatagataa 420
aagctcatgg gaattataaa ccaacggata gcgttactgt tggagtgaca aaaactaaaa 480
gggatcttat agaatatggg ggctagggca aatatcaaaa c 521

<210> 5724

<211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5724

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 nttgaagagg ataagtcata agtgactggc taatcagctt cacagatata catgtatata 120
 taacaagtag taacaatgtg ctttacctgg actttatata atgaaacaac ttccacaaca 180
 acaccaatgg acaaaccaag ttcaactaca acaaactaat tcagcttcac ctggagttga 240
 tataatgagt aatggcttta gaagaactca aagccaaacc aagttcaagt acaacaaatt 300
 aattaatctt tttctcaacc aaagtatgtc aaactacttg ttggatatta aaagtgttag 360
 ttattcatgt gacaggcaaa gagagttgtt agacaataat tcttgtttaa aactgtcaat 420
 gaagtattgc ggcattaatt tgatacacac tgatcaataa caatcgatac at 472

<210> 5725
 <211> 572
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5725

atacttccac gttcntcna cctntaatct aatcgtaata actntacttc gaacanatnc 60
 aaaaaaacac gagatgaatt gatgaccttc agacaccggc actatnaaca tgaagctgat 120
 gctgcgacag atggagacaa tcaagtgtat gatgtgattt cacaccatca tgcggcacag 180
 acacggcatg cacatctgaa ttcgatcgtc ttggccttga cgagctgaat aggcgagaaa 240
 gtccagcccg cctcaagatc atagataatg ggtgtgatgt taccttatat catgatacga 300
 gcgctgacag actgaaagat gggaggccga cttttgttgt gactacttaa acttcctaga 360
 gaaaagcact gatcaattgc atagtacgtg gaaagaaagt agaattctctt ccatcgaacc 420
 atcacatgag tgatcgcatc ccaagcaata acacccatat agggaaacgga actccaaact 480
 ttagtcacat cctctcgggc atgactcatg gacggaaaac agtttcagtg cacagttgga 540
 tagcgtaatg aatgaagcga ggacaaacct cc 572

<210> 5726

<211> 537
 <212> DNA
 <213> Glycine max

<400> 5726

tactactgaa tgtatcaatt attcattata tttatgattc tatacagcgg atgaatggtc 60
 atccatccga cttaattata acttaacttg aagagatgca ctgactaaag ggaggagtta 120
 ccattccatgt gtcattcgatt acacattgtc agaatagaat tccaatatgt aagactcgtg 180
 tatatttcag ctgtggtaac tgagacaact tcatggaatg ggatacatgc cttacacaac 240
 ttatagataa acttttatca gctgtttttg caagagattt ggcgacttg caatctgatt 300
 acatcctctg ttaacagatc actcgatgga gaatcctctg cacacatatt ataccttgca 360
 tatattggcg gagactcttg ttgttcacg tggaattccc tccgtgaagc ctagacactc 420
 tcttgaagac gtttcttgta tgctacagga tctcggcgg tgaattaaca cttaagacga 480
 gctcgatgat cttcgaataa acttcgtaca ctcatgacca cctcgcatgc tccatcg 537

<210> 5727
 <211> 613
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5727

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 cntctacaca cgcgcgagag aatgagatcg atagcctngc naatacgtga cactatagaa 120
 tacacacgct agangatttg tatacgaata tcaacacact actgcttctc ttttatcaca 180
 ctagggcagt agattacaca aatgtaacac tctaataatcg ctaaatcgag tgacgctgaa 240
 gtactttctn tgtcttgtag gcggagggca tagactatct aactcaaaag tcaactcgac 300
 tgtactgacg aaccacatat tatgcaaacg tccatctaaa gccgttttat gatacagcta 360
 aggccactga taatactgcc acatcatctc aaagtccaat actggagaag caaccactc 420
 gaaatacata cgagctaata ttcagtcgcc aatccgtatg gcgcattcat ttgtaacacg 480
 ctctcttaac actaaaaatc tttaaagctg gacaattgaa tgacaaggat ctcattctcag 540
 taaaaatgat acgaaacaca tgagccaatt gcataaagta taaaagctca tgaaacctgc 600
 ttaatatcga atg 613

<210> 5728
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 5728

tcacctgccg catgcaagct tcccttatcg atattgccgt atgcaatact taacatcagt 60
 ataaacaata gatgtcagtg gatccttaggt attccacctt tccatcaagc attaatgcct 120
 tttttggagc acatgcatta atatctgatt aacatgtggt catgctatct gtagaaaatt 180
 gtatatcatt gtacattgta tcaatatttt tctcaagatt ctctagatac ttttctcaag 240
 acatcacgat tgacaagtca caagtataca caatttataa ataaaatggg gaaaggcatc 300
 ggaggaaacc gaaaaagtta cctaatagat ggacatttta tacagtcttc 350

<210> 5729
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 5729

tgaacttgcc tgctaagcga gagtgcgcac tgagctcgga ttacactctg agcgagctgt 60
 ccaattcttc caactcttct tcaattcttg catcaattgt cctctaaagc acttgaattc 120
 ttcttctttc gacttctgct aataaaaaat tgcaaagatg ataatttctt cgttatttca 180
 ttcaaaacaa tagtaaagtg aacaaattac aatcattatt agtcaaaatt gactatcaag 240
 ttaactcaga tttgcgagat atcaactcct ccaaattaaa acatttgctt gttctcatgc 300
 aaaagacaag ttctgagtggt gccaacacat gagataacta tgaatccatt aaaacatttg 360
 tcttgatctt gcgatggaag catgaacgaa tacacatgga gatgaaaaat gttatcacat 420
 aaaacttcat caatgcaaaa tacaacactt cattcctcac 460

<210> 5730
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5730

agctattgtt gaataaatcg actcccatat tgatccgcac taccaatgat aataaaataa 60
tcaaatttaa ttcttcaggg tgacagcata taatgaccaa tagcaaacia tatacctgaa 120
ttcaacaaca tgacccgcaa tttcagagag ctcaaaacac tttgttttat tgggttttaa 180
ctcttccaac agagaagaag caaaactttc atcaatgttc ccagtatctg catgccaagg 240
tcccatgacc cgggccaaat tcctcattcc agaagcaaaa cgcataattca gttcattgtg 300
cctaacagga cttgcagatc caactggnga agtggatata acagagtttg ccattggact 360
tcctgggtaa gacatcccg caccatatgc aggatttcca taataaccat gaggagtgga 420
gctgcctgat taccac 436

<210> 5731
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5731

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aatgtaatgc aatttctgta atgatattga taagtagggc ctattagagt aggaaggcca 120
ttatagcatg tttgcccagag taccagtata ttgagttatt ttctctaacc aacatgtatt 180
atgcattttg ttaggatgga cccaaagagg tccaaaagaa ggatgtttta gtggctcaaa 240
gattataaaa gataatgttt tttatttata aattatagtt ctttatttaa tttatattaa 300
aataacatga tgttgagact tggataatta ttatccattg attaaatgtc ccttagatta 360
tatatgtata ttcattctta cctattatca tttattaatg aaatatcaag tttatcttat 420
tctctgtata gctgtatg 438

<210> 5732
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5732

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taggattcaa tgctttgtgt tgattttgaa agcctagcat ctatttagac acataacaat 120

aatatgaata caaattatta agataattaa tactataatt tagatgacta accttacctt 180
 anattcgatg cattggcggt tagcaacaaa agctttccat tgccccttgg atatgaatgg 240
 atacatttgt ggaggatgct catcaacact accattttca tcataaacat tattctttgt 300
 taagtagggt ctaaaatttc tacaaagttt atttgcttct ttaagaaccc atctttgaca 360
 gctattatca acaatgaatg ttgtctacaa aattgatctt aattgatcaa gtatgtttgt 420
 ataagaatca tanaatatgt caagtatgta tagtacc 457

<210> 5733
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5733

tcatattctg aacaaggaag ataactcaac tgtntcatat gatcaciaaac tcattatagc 60
 aatcaaacia gacaaacaaa taaaattctg ttagtcatca tataaacaag ttaaataaaa 120
 gagaaatttc aaccaactta attttaaaag ataatggttt tgatgttacc ttttttcatg 180
 attcaagtgc ttagatcttt aaagatggaa gtcagacttt tgtttttctt acttaaacct 240
 cttgagagat gttctcatca ctttcatagt ctttgatag aaggtcgac tccttcttgc 300
 aaccatcaga tgagtcattg ccatcccaag caatatacgc cttcttgat catctttctt 360
 tataactttt cttctcattc ttctcgggcc atgactcatt tgacggacag atcgtcttta 420
 tgtgaccacg ttgatacact tata 444

<210> 5734
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5734

agcttatgct gcanatattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaacct ggatggagga atcacctaa 120
 cctcagatgg tccagccctc tgcaacaaca acaaaagcct gctccttctt tccaaaatgc 180
 tgctggccca agcagaccat acattctctc accaatccaa caacagcaac aacccagaa 240

acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgatga ggcaaatac 300
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttagctaccc aattgaatca acaacagtcc cagaattctg acaagct 417

<210> 5735
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5735

ntannaattg aattanaatg ttctgtaact attggtaatc aattaccatc catgtgtaat 60
cgattacaca ttgtaagatt tgaattcaaa tttctaata ctgttgtaat tattttcagc 120
tgcttgtaat tgactacaat cctcatgtaa tagattacat gccttcaaaa atattcaaaa 180
tcatttttaa aagcgtttta ggaagtgttt tggccactgg taatcgatta catcctctgg 240
taatcgatta ctagagagta aatctcttgt aaaaatattt tagcttaaatt tcattggcca 300
aacctcttgt cgtttcaact tggaattccc ttcttaaata actagagatt ttcttgatga 360
tgtatcttga atttcttgga ttcttgtctt gaattaaact taagaagtgc atgatcctct 420
tgcattaaac ttgagaagca catgatcacg tggcatcatc aaaac 465

<210> 5736
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5736

agcttggttc gaggtactta cccgttgaag atcgaagaac gaatgaagaa cgtcgaagaa 60
cggttgaaac ctttgcgaaa ttcttcacgg aanacgttac ggaaacattt cggaagcgcc 120
tcggcttaga ttttcttcac ggaaacaatt tttctaagca aattcgaaag agagagaagt 180
gcctaagggg ctgaaccctt ttctttctca ctctctccc tatttatagc aaaatagggg 240
agatgggttc cgccagctc ggccaggcga gctcagctcg ccaggtgag ccaggttgct 300
tcttcagaa gcaacagcct tctggaggaa tcttctggaa ggcccaagtg ggcttgggtg 360
ctatntgcac ccccatTTTT actaagtaca cccctctgc ttttttggt gattcttttt 420

tcgaaagta

429

<210> 5737
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5737

tgttgatttc ttcaggatga tcaacacaat attgcatttg ctgcttcaat tttggcctgc 60
agatttcaca aataatacat ttactatgct tatttggtag gtttaaattt tcattttttt 120
aagggaggta taatttttta ttaaaagtca ttgtattttt ttagaatttt attttatgtg 180
aggtcaactt aagtttttta ttttacacaa atgtaattta ttttattgcc atattatcca 240
attcattaat ttgatttagc aacacactga atttctataa gtgttaatat ttagcaacat 300
atttcttagc acatctttta tatcacacat tctattatag attaaaattt attacaaact 360
aaaaaattaa cagagaaata actcattaaa taagaagtga gactaacaaa aattgtgatt 420
nntaataaat tctaataat ctttaataat atatttaaatt g 461

<210> 5738
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5738

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agagagcaag aatgaagag ccaatggttg atacatggac ggagatgana aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaatattga agaagatgag gaggtaacta tggctcgatt tottaatggt ttgactaatg 300
atatccgtga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcaciaag 360
caatccaagt ggagcaacaa 380

<210> 5739
<211> 400
<212> DNA

<213> Glycine max

<400> 5739

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgtagt 60
tcaatttcga gcttctcgac atattatgcg cccgaatcgg acatacgtgt gaaaagttat 120
gaccatttga atatctcgag agcttccgat gatgaatttc gagcgtatcg atatattata 180
cgcctgaatc ggacatccgt gtgaaaagtt atgaccattt gaatgtctca agagcttcca 240
ttgatcaatt tctagactct cgacatatta tgcgcccga tgggacattc gtgtgaaaag 300
ttatgaccat gtgaatttct cgagagcttt cgttgtgcat tatgagcggg tctatatttt 360
atacgccaca atctgacatt ccagtgaataa ggtattaaca 400

<210> 5740

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5740

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cctcgcccaa tattatgacc agccgggtgag gtgcttcacc ttaggggact ttctattatc 120
acccacggng gaagagtttg aagaaatcct gcgatgccct ctgggaggaa ggaaaccata 180
cctcttctcg ggattctatc cctcttttagc tagaatttcc aagatagtcc aaatctcaac 240
gcaggaatta taccacagaa acgaagtcga atatggtgtg gttggagtac caaggaaatg 300
tttgaagta aagcaagagt cttggcaggt aaaggcgaat gggccccgtt catggacatc 360
ctcgcaacta tgatctttgg aggggtcctc tcttcacatg tggatgggt 409

<210> 5741

<211> 425

<212> DNA

<213> Glycine max

<400> 5741

tcgtcctcag atccctctta ttggacaaaa cttaaccaga accgcattaa gacataacat 60
actagaaact acgtttctgt accccgatgt ttcataaaaa cagcataagc tagccctgtc 120
ctatcacgtt ctaaggatca aaccatttcc caatggtgag tgatcctaac taagcatgca 180

gttacgtgat caatgcaaag gcacactaga attaagtact gatagcacag tgaacacata 240
 aaacatcatt agatagatat aaaagtat tt acatcaaggt ccccatatga agaaccaatt 300
 gaggatttag ctctccatag tcgggaagct ttctttacca cgatgagaag agaagatgaa 360
 cgattgaaga agttcaaatt gtggcgatgt ctcttcacc tctaaaacct tacatctctc 420
 aaatc 425

<210> 5742
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5742

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 gcttgcaaac ttgatagatg ctggattttt ccactgtaag cttacttatc caaacttta 120
 ttaataat tt gaaggcaaaa aatagcgttg acttggaaca ctattgtgac ataacgctgg 180
 gagagcaaga taagcatggt gctagacgaa tgatgaaatt ggcattgcta tgtgtggatg 240
 tgactagtag aagaccatca atggcgacga ttgtgcaaga gttggagcac attcaaagag 300
 aaattgctcc agtgtattct caattcaacg aggagattgg tgccgtgact ctatggagtg 360
 agc 363

<210> 5743
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 5743

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 cccaacatag caccattact gtgcataaag gatacaaata gaggttcatt tggttgataa 120
 ttgcaaccaa tgctatatga aatcatcgcc taatacaaga gccgtatcta ccgcaatgag 180
 aacgttgogg tcataactaat tacaatatga gacaacacta tttgctttaa tcaacgatta 240
 tgaaaatgaa tattttacta accagagaac ctctttttga taaaaattaa acccatgaac 300
 ctaaacgcat caataataga gactgttat gtgatatgcc tggatcactt gcttcatatt 360

tactcaccat gaattacttt ctataatgaa gactagagaa gcattccatc agctttcttat 420
gctggactaa aatat 435

<210> 5744
<211> 465
<212> DNA
<213> Glycine max

<400> 5744

cacctgccgc atgcatgctt attgaaataa agctagaaag atcttataag aaagtcacaa 60
accacttcta taaacccatg taagcacttc taaatgccct ccacatctga gattattgca 120
gtgggattct gttcttcaaa aactctcttg atcctatctc cagatgtatt agaatctcct 180
gcttgccctg ctttataatg tcaaattcac acagctatta atgaattagt atctaaaatg 240
gtattatfff ctgcacacat gggcgttgaa ttgcattgat gtcacgcatg taactttaaa 300
gggttttaat gagagaacca acgtcatctc catttatagt actctaattt tgtagcagca 360
taagtgaatc tttttgcatt ggaattgaca ctaccaatag agaacttctt catctttatg 420
aacactatac atctttcatt gtctcttatt ctttaatgga attaa 465

<210> 5745
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5745

ngggtgatgt tgccgttact gatgggtacc atgaggtggt tgctgggggt tgaccacgc 60
gggtgttgaa gagacggcat gggcatctcc ttcttctctt tttgccctg ttgcccacat 120
tctttcggca ttcacgtttg tggaggaaac gtaatcaaac tttctctctt tcaatccaac 180
ctcgattctt tccccggcaa acaccagatc cgtaaagctg gacggcatgt aaccactag 240
cttctcatag tagaacactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
catggggagga gctacttgtg ccgccaaata cctccatcgc tgtgcatatt ctttaaagggt 360
tacacctct atctcgaaca tattctgtag ttgagtaagg tcatgagcca tatcagaatc 420
gtactgatac tate 434

<210> 5746
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5746

gagcttgagc taggatattg cgattagtga cgttgcggtg tacgactccc tccccggata 60
 ggtgcagaat tctttcaagc attgtgcgac tattttccca gaggtctctnt gagaagatag 120
 gaaagctaga aactcccagg tctttattaa caaaactgtg ccacggtggc agatttctgc 180
 cttggtggat accatcaata gtgcactcaa gggcaagggg atgctttgtc ctccaggagt 240
 ccgagattgg tgcagagtat tctcccttct tccctgcggg aacggtttat gttgaaggta 300
 gctgcttggg tccacacggt tgctgggctt tggcg 335

<210> 5747
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 5747

taggcttctc ttttcaacct atatttggtg agtggggccaa ctcatgtga tctattcttt 60
 acaagtagaa agaatagcaa gccataactt attgagccat cctgtttgac atctctaatt 120
 gtatcaatga tcttatctta caatatattg ttttcttttt ctattatact ttttatacta 180
 caatataaaa tttctcttaa agaatatagg gtaaactatg tttttaacca ctaaactttt 240
 tcaaaatttg attttttagta cataaataaa agttttttta tactagaaaa ctttttttta 300
 tattctgaag cgtattttgt agaagtaaag atattttgat gttctgatga tgccaaagga 360
 acgcgctttt tgagttttat tcaagacaag aatctaagat atccaagaaa ttcaagaaat 420
 atgatcaaga taattcctag agtcttagga ag 452

<210> 5748
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5748

ttacagtcac ctgcggcatg caagctagag atgaggaagt gtagaagggt gattcttcct 60

gctnttattc gttgtctcac aaagtgggtac ctggagatat gtcgcgngg tcaggagacc 120
 ttngggacgt caggtgggggt gctattgccc aaaaccaagc ttgaccaatc ccgacccaac 180
 ccgggcatag tcagtttagtg agaacctgtg atgtacctaa acaggcgagc tcctggcagt 240
 caacagataa aaggaacaaa gaccacaaaag catggagggt tgtgtggtgg ctggccagct 300
 gtgaatcttg tgtgatatat gggttatggc ctctggtaat cgattaccaa ggggtgggtaa 360
 tcgattacaa ggcttaaaaa tgaagacaag aggctaagat ggtctttggt aatcgatta 419

<210> 5749
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5749

ngaagtctgc gtagttctgt gaggacttca ttcagaagag aagtggaatc acccctttgt 60
 ggtggaggag atggggtaag ctcgtaagga ataggcagag gcaagtcttg tttgtgaatc 120
 cactgaccat caacatcatt tcggtaacca aaagagctaa ccacaccagc cccaatagaa 180
 aaatatctct taaccttcac atatggttca tcgtccaaag gaatattgaa atgatgaaga 240
 aaaagagtaa caaggtgggg ataaggtaga ggtgcattgg cccgtaatgc cttatgcac 300
 cgggtaccgaa ctaaattgggc ccagtcaatc tgacaaccag tttgaaaggc ccacatcaga 360
 atcaaatact cctcagaggc ttgagcatgg tttgaagacc ggtgaagcaa aatacgaaca 420
 atgatataat gcatgatgcg acaatcaaaa gttaatgacc cagcacgtaa t 471

<210> 5750
 <211> 575
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5750

aatcaccacg tgaccgaacg aagaatctct ntccactct acctaccac aaagccnata 60
 ggannnnnnn atgaaccctt tgagaccgt gacaccagag acgactgcag cangcagcgt 120
 cttcatatct cgataagaaa gggttgtatt cgattatcct tcctccttct tcctataatc 180
 cgagactcct tcctcctttt atcttccttg attctctttt agacttctta ttctcttttt 240

gttcttgtca aaggacgtgg tacgataaaa aactcgaacg aaactactta acaaaaaaaaa 300
gaaccacaag ttaaatecgca ggaaattatc acaatgatcc ctgatatcta acaatgccaa 360
aatcggccca ataataaac taaaaaaca catgatacac tcatgatgtg atataataaa 420
tgcgcactca tactaagaaa tcttgacatt ttcacttaga atattagctc cataccctca 480
tctatacccg catcctcacc atcatggaca actatgtatg ggtggccaac aatggcttat 540
cacaacatca gcaaagatca gagagatctt tggcg 575

<210> 5751
<211> 458
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5751

ngagaagttg catcaacaag ctgaccagat aatgcataac attatcaatg agcatagaga 60
ggctaagtca agtgccacag gagaccaggg agaggaggaa gttcttttag atgtgctctt 120
gaagaaggag tttggcttaa gtgatgaaag tatcaaggct gtgatctggg taaggataga 180
cattttccac caattttatt gcatgataga aaaatggaga aaagtatgct ttactgcctt 240
cacacttttag tttcaaaaac tattttgtat tttctaaaat gattagtaat cattttgtca 300
ttcaaaattt aataggtttt gcaaattgct ttgaatataa gtgttttaaaa agaaaagaaa 360
aatataaaca gttaaggaca tattttctca tctcttttct gtaagtgctt tattcaagta 420
tctagaaggc aaacttttaa aaattagaaa tgtgatat 458

<210> 5752
<211> 354
<212> DNA
<213> Glycine max
<400> 5752

agcttgaaat tgaacaacgg aagctctcga tttaatcgag tggtcataaa ttttcacaca 60
gatgtccgat tcgggggaaat aatatatcga gacgcacgat attgaacaac ggaagctctc 120
gagaaatttg aatggtcatt acatttctact cggatgttcg atccggcgac ataatttatc 180
gagacgctcg aaattgaaca accgaagctc ttgacaaatt ataatggctg taacttttca 240

cgcgaaatggt cgaattcggg acataactca tctagacgct cgaaattgaa caacggaagc 300
tctcgacaaa tttgaatggt cataatgttt cacacggatg tccgatctcg gaac 354

<210> 5753
<211> 220
<212> DNA
<213> Glycine max

<400> 5753

attcagagga atacagtcta tctcccttat cttagtgaga gagaggctcc tacatacttg 60
agagatccac gcacactctg cctgtagcaa aggactttca caacctttga gtgttgccct 120
cgctggaaag agtgaccctt tcttccaag catctccacc cttgggtctt cataccacga 180
ttgcataaca ttcaccactg ccctagatta tctcgtgaaa 220

<210> 5754
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5754

agcttctcaa ctaggtgggc ttagttatta taggggtgcg tgtagctaag ctctagcttc 60
tcaaagaagt tttctcaaag aagtttctcg aggaagtttt ctcaagaaag cttctcaagg 120
aagctaccta gtctataaat agaagcatgt gtaacacttt ttgtaacttt gatgaatgag 180
agtcttgtga gacacaactc anagttcaac ttctctctc cttttcctcc attcaaatag 240
tgctcccccc cc 252

<210> 5755
<211> 372
<212> DNA
<213> Glycine max

<400> 5755

aggaaacctc tagacgaatc ctcttattga agcttctaga gaaagctaca tgacgctgcg 60
ctcgtataaa cgctgcacag ccttcgttaa ccattggatc ttttcgaaat ttggtctgaa 120
aattcacatg acagttgtcc atgatctgac cgttgggatc tttgagaaga cgtttggagt 180
gtgctagaag cctcttaatg aaccttttgg aggaagcctc ctaatgaagc ttctagagag 240

acctacgtga agctacctca ttataaacgc ttcccagcct tctttaacgc gtggatcttc 300
 tccaaattgg gtctgaaact tcacataaca attgtacatg atctgaccgt tgggatctat 360
 gagaagatgt ct 372

<210> 5756
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5756

agcttgaggt tattccacaa gtaaagtagt agttggatga gggtttggtt cgtaagggct 60
 taactccttg tgctttgttg gtatccaaaa taggtattat gaggcactga atccctatga 120
 taggtggtat gatgaatgtg ttgagtgggtg caaccctctt ttgtaaaatc actcatgcat 180
 ccaacatctt catgattcac atacataggg actcattang taggtttggtt cttattttta 240
 gtttcaatac aaacttaggt gctcatgcgg aacaccttan gtttgttggtg ctttttggtg 300
 ggaataatca acatgaaaat acagaaaaaa aaatgtatgt tttatcgcat tactttcctt 360
 aatttttaaa tagggatcat ggggttacca caaacctaa gagaataaag gtcagtcctg 420
 agtggggcat tccaccaagt ata 443

<210> 5757
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5757

ntgatcatgt gttcaattta atatattggt aaaactacaa tattgtttct atatagctgt 60
 tttcactcca gaatgtttct gattcttgat ctttctcatg taatcattct tcgtaaacgt 120
 gtttcattgg agaacagacg cacatgacaa caaagaacct ttaagaacca ctaaaattca 180
 atgtttcacg atggagtggc tctaaacact acctgcaccc tctcatttct ctccctccgc 240
 actctacttc ctctccatc ggctccacat gcaaccaccc atcgcggtatg ctttcatctt 300
 cgccgttgag ctctaaactc agtgctccga gttggatcac tcaactcaacg agttgactca 360
 acaacttaaa gtgggtctca tcacatacag tctacttctt tgacaaaatt catg 414

<210> 5758
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5758

agctnttact ctcttgtgct tgtgcctacc gttgtgcttg tgtgcattnt ttctgcgtgt 60
 gctttgagtc tattctcctg cattcttgcct ctcatcttac atctttcacc tcaatccaag 120
 taagcttttt atgttatttt aattttcctt cagaagctta aaccttaggg tagacaat 180
 atangctttt agtttcattt atgggttagct tttgtgtttt cagtttttag ggtttacaat 240
 gtaggggtta gttaggtcct agagcctaag agaggtaatg cctataagag gcgtgaagac 300
 ccccatTTTT tgctggaaat cacgatgaac cgcgctagtgc cgccagctgc gcttagccaa 360
 ttcatcgcaa ctgtcannat tttatatttc cagatgatcg cactaagccc gaccatgtcg 420
 cactaagcgc gttcagcctt ctgatgagtt c 451

<210> 5759
 <211> 119
 <212> DNA
 <213> Glycine max

<400> 5759

tgcactatca cacatgtgat cattagcaac atatattata tagttcctaa gatctttcga 60
 caacatttat aaaatgttgc caaatatgaa taaatgttac taatatgttt ttgcaacat 119

<210> 5760
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5760

agcttcgaca ccctaagtgt gttcaatttc ttggagctgt tactgacaga aagcctctta 60
 tgttaattac tgagtatctg agaggagtat gtgaatgcat ataactagac acctaggttc 120
 tgatgctctg aacttatgca atcttatgct ntaagattaa actctactaa atctctat 180
 catgcccatt tttaggggtga tcttcataag tacctcaagg acaaagggtgc acttagntcc 240

ttcaacagcc atcaatttgg cttggatatt gctaggtatg gtgtgtcata ccttaagttt 300
 cctttatntt tctttntaaa atttttataa agagaacaaa cagaaaacca canaacanga 360
 gaatcattaa cccatagatc tcttcaacct ctccatanat ctggtatata natataaacc 420
 actcctaaat aattctcaca cgtcagttac t 451

<210> 5761
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 5761

tgctctcccc gccctctccc aacactccat tggtgcttcc attctcccc aaagttgctg 60
 gtatgtgatt ctattaatta tttcaaattt atttattctt tataaatcgt tatattttat 120
 ttgttgcatg cttttttttt gcagggtggc atcttgtgta caaattgctg ttagtttaat 180
 tcgcttatta ttttagttat tttttattaa ttatataaca aagctgttat ttgtgcttta 240
 atttttagaa tataaattta attatgattc atagtaaata ttactgtgat aatgttatta 300
 tgcgtattta aaaaacgaag gcttattatt attatatatg aaaaatatat atatacgtgt 360
 acttatatta ttttctgaaa tatgagaaat tgacgaaaat aatatatata t 411

<210> 5762
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5762

agctngaagg ggtgtaaccc atcattctct atagtagaac agccggaacg ngctactat 60
 cattattatc atctccctct ccatcattgg agatgctact tgagctgcta ggtcccttca 120
 cctctgggca tattccttga acaactcatg ctccctcttg cacatgtttt gcaattgcac 180
 tctatctaga gccatgtccg agttgtattg atactgctg atgaaggcag ccattaagtc 240
 ttgttaagaa tggactcggg aaggttcag aatagtatac caggtgacga ctgccccaat 300
 aagagtttcc tggaagaaat gcatcaacaa tttttcattt ttcgagtatg cccccattnt 360
 ccctactgta catttcaggt gattcttggg gcatgtagtc cccttgactt atcaanatct 420

gcaccttgaa cttcggaggg ataacgat

448

<210> 5763
<211> 438
<212> DNA
<213> Glycine max

<400> 5763

atatatcgca ccatcactct attcacttat tctagaataa tatgagtacc tattctgaga 60
tgtaagaagt cgaaattatg aatcacaaat tgattcctaa actaaactta aggaagtaca 120
tatatatcat atatgaaatt gcaacctaaa acaaatggat gcgattgcgt caataaataa 180
atatatttat attacaaatc aagatcgtat ctattattga aaacatatat gcatatatga 240
tatatcacta cttttatttc aatgcaccta caaggaattc tagcacgaga gatttggcca 300
tgagaacttg taccctgtaa ttcaaataa agcacatatt ccatcgatag aagatttttg 360
caaatctact aaaacaattg cgcattctaa ttctcagcgg attgcgtcta tgtataggac 420
ccatcttcac gaaaatca 438

<210> 5764
<211> 227
<212> DNA
<213> Glycine max

<400> 5764

aacaacacca gcatcgagca catgaccgag cggcaaacc cctgaaactg tcatttgata 60
tttaatagag taacggctct atgtgaaagg ctagagggaa aagacactaa cgactctttg 120
aactaaacac atttgcaccc aacatacgag tcttattctt ttaccctaaa atggcctctg 180
ttcatgagag agctagactc ctaagaacta acaatcgttc ttctatc 227

<210> 5765
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5765

tctcatgac tattntctaa antttttctc gtattcttat atttccacan anacctccct 60
cagcagctag ncatganatc gtgttgatgg cgtatcttaa ctactcatgc ttagtcttc 120

aagcttgagc gtcacgaag tgtatgagaa tgtatctgtc atactgttga aaggtagaga 180
ccataccgaa gagtcaagac ttagcataag aactgtcga gcaacttgat atatcatggg 240
ccttagtcgt cgagcacgtc aaacgtttgc acgattgaaa ggcctagagc ttccgtgttc 300
tgcgaatgaa gtgcctaaag tgtgaggtgc atgcaaacga cattccacag cgaggataga 360
ttctatgaat ttgtgatcac ttaccaatgg acataacgag gtttaataat tactgagtcc 420
acctggcgat gatcaagacg aatagttgca tgatggggtc cgaccaacat acttgaggcc 480
agatcagggg taaagcttgg aaataaatgc aacaagggat ggcctatggt ggtagacgat 540
gccacgagc c 551

<210> 5766
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5766

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tgttntgctg atggcttctt ccccgccaa gcttcaattg gagtcttgtc ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatgtc 180
ttaggtagtc ccttctcctt gagcatcgat ctagccatctt ccataatctt gaaattcttt 240
ctctcggaca ctccattntg ttgaggagaa tatgcgactg taagttgtcg ctcaatgcct 300
tcacctcac aaaatctttc aaactcgcga gaggtgtact ctntgccgag atcacttctt 360
agtact 366

<210> 5767
<211> 394
<212> DNA
<213> Glycine max

<400> 5767

tgcgggagtt tgtgatagcg attatgacgt tgatgttgat gatagaaaag cactaccgga 60
tttgtattgt ttatgggcga atgagttatt acatggagat ctaagaagca aggcattgtg 120
acactttcta cttgtgaagc caagaatgta gctgcaactt cttgcacatg tcatgccatt 180

tggctaataa gaatgttgga ggaacttcag ttgttgcata aggaaagcac aaagatctat 240
 gttgataata gatctgcata agagcttgcc aagaatccgg tgttccatga acgaagtaag 300
 catatagata caaggcgatc attcattaga gagtgcata ccacgacaga acgagaactg 360
 acttatgtga aaactcacga tcaagttgcg gata 394

<210> 5768
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 5768

tgtgataagc tagaacctta tctatccaca cgcctatgat aacttaatta acctccctat 60
 agataattac ggatgaatac aacgatacat agaatctatc atccggcata cctactatta 120
 atatatagat atatatatca ggggtgttact actctctcac cctcttagaa aatatgcctc 180
 taaggatacc ttactcaga 199

<210> 5769
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 5769

ttttcatcta tgatccctac cctagaaatg ggctacgctt ctttctttcc tttctaaggt 60
 gacctttctc ttgtcggcat gtgtaggctt gtaacctaga ccgaagcttc cacaattttc 120
 aacaacctcc ccaagctttc tgtgccatta ccattctgag ctcatacca tcgctcaaca 180
 taacttgggc caccatcaag gaggcaccag atagacgcgg ttgcagcgga ggagcctcca 240
 cataagcatt gctcacaatt tctaattgctt gaaaagatgt ttccaatgac tctgtcacag 300
 cttgcacata aggcgtagaa gatggacaac tcactagtat atcttcttcc cctgacact 359

<210> 5770
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 5770

tgtaatcgat tacacacata ctgtaatcga ttaccagagg atgtttttat aagacattct 60

caacagtcac atctttgtat ctgggtctta agtggccatc ataggcttat atatatgtga 120
ctagagacac gaatttgaaa aaagtttttc agaacaaaaa aggtcttata ctcttaaaaa 180
gcaaaatcgt tttatcctct taaaaattcc ttgtccaaaa cacttgtgat tcaataagga 240
attatttgag tgctcaaatt gttcaattta tctctttcaa gagagatgtc ttcttctctt 300
cttcttcatt ctgaaaaggg attaagagac cgatgggtctc ttgttgtgaa aggattctaa 360
acacaaagga aggattgtcc ttgcgtgttt agaatttgta aaaggacttt acaagataat 420
ggaactctca agcgggtgct tgtggactgg acgtacgcac a 461

<210> 5771
<211> 227
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5771

tactttgtct tcatttaact gactatgcgc ttggcgggtca cgctcaacat agtactttcg 60
acacctacta tacgttgatt tcaccaatgc tggtatggga atgttgtgac aatcctttaa 120
aaccttattg atacattctg acaggatcgn tgatatgagg ccatatcgac gtgcgtctct 180
atcgcaagcc atcgaccatt tatcctttga gatgcgagca atccata 227

<210> 5772
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5772

ggttcttgat tntntcgaag ttctttaaca accttanaac attatacttg tccttcattt 60
aattgtcttt gggttgttca accacgatca acaaagtact ttcgacacct actatatgtt 120
gatttcacca aggetgttat cggtatgttg cgacaatcct tcaatacctt atttacacat 180
ttggacaggt tgggtgtcat gtgaccatat ctacgtcctt cttcatcata agtcatagtc 240
catttttcct ttgaaatgcg atcaatccat gttgctatgg ctagactcaa ttgacgaaat 300
ttttctaaat ttgatcaaa tatatgcttg caaggagtgt agcctgcata aaattagtta 360
gcaataacaa ttttaagtat atatgaaact tacattaact tcatattata aattaaatct 420

taccaattg tttcaacatt tctttt 446

<210> 5773
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5773

atcctcagag acacctgagg catgcaagct tcaacattca aattcgagcg tctcgttata 60
ttatattatc tagtcagaca tccgagaaaa aagttattga cgtttgaatt tgctcagagc 120
ttcaacattc aatttcgagc gtgtcgctat attacgggac tatatcagac atccgagtaa 180
aaagatattg tcgtttgaat ttgctcagag cttcaacatt caatttcgag cgtgtcgata 240
tattacggga ctcaatcaga catccgagta aaatgttatt gtcgnttgaa cttgctcaga 300
gcttcaacat tcaagttcga gcgtctcgta tattatacga ctcaatcaca catccgagta 360
aaaagttatt gtcatttgaa tttgctctga gcttc 395

<210> 5774
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5774

ntagggcaaat tcaaacgaca ataacttttt actcggatgt ctaattgagt cccgtaatat 60
atcgagacgc tcgaaattga atgttgaacc tatgagccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccataata tatcgagacg ctcgaaattg aatgttgaac 180
ctctgagcca attcaaacga caataacttt ttactcggat gtccgattca gtggtgtaat 240
atatcgggac gctcgaaatt gaatgttgaa cttctgagcc aattcaaacg acaataactt 300
tttactcgga tgtatgattg agtcccgaat tatatcgaga cgctcgaaat tgaatgttga 360
acctctgagc caattcaaac gacaataact ctttactcgg atgtccgatt cattgacgta 420
atatatcgcg acgctcgaag atgaatgtcg aacctatgag ccaattca 468

<210> 5775
<211> 439
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5775

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acccgggatt cttagagtca cctgccgcat gcaagcttat ggtaatcang agttagttcc 60
tctctcttaa ggaaaaactc aacattattn tcattggatt tacataatga anaattgtcc 120
taatgataag gttgatcact tcaaggctca tctagttact aatgggttca ctcacgttta 180
tggtgatagc ttttcacttg tcaccaagat gccatttggt tgtctcttcc ttgccatgac 240
tcccatgtgt tattgggctc tatttaaact agacgttaan aatgtctttc tacacaacga 300
acatggagag aaaatttata tggaacacct cattgttttt aggaggagtc taatttgggt 360
tataaacttc attgctctct ttatgggtta aagcagtcct cctgtgcttg gttccaaggg 420
ttagtattgg tattcaact 439
```

<210> 5776

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5776

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tctcagcggc ttcagatgca acataaatat gccaatgaca cttataaatt nttcaaaaaa 60
tatatcgaaa gtagatatta tgcaagcctc aagagggagg tatatgttga gaggaagtg 120
aatctcacgg aaggtgaatt cactgtgatt caagagatct ttgaggataa aggggtggact 180
aaattgatgg aaatagttat ctataatgaa ccccttgta gagagtttta tgctaattgtc 240
atctttctag atggtttcaa tgaaaggaag tcttgtgtca caggcataat tgttaaatat 300
gactaagcgg ccatcaataa tctttttggc tccatattga gaatagggaa aagccaacaa 360
acagactatg aggagtgtat aaacaaagag aaaagaatat gattgggtgaa aaagttttgt 420
gcattcccaa taggcatata gagacaaact ctaaaggaaa acctatgaga gt 472
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<210> 5777

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5777

agcttaacaa acttagaaat cttgtgggtca tttattccga aatatagggg gagtaaacgc 60
acattnttat ctatatacaa ttgtttgttg cttgcttgaa tcttgatttc acgtattgta 120
ttgtcatcat caaaaagggg gagattgtag atgcaattgc ctttggtggt ttgatgatga 180
tcatgatgat gaaattgatg caaatgggct tttcaagatt aaattcaaga caatacttca 240
agattacaag tcacaacatc aagatgggtca ctagtaaatt aggaagggaa ttcctaattg 300
aattagcaaa aggttaggcc aagtaatgta aattaagaag tgtatttcag aggttntact 360
ctctggtaat cgattaccag aggatgtaat cgattaccag tggccaaata tattntataa 420
cagctact 428

<210> 5778
<211> 300
<212> DNA
<213> Glycine max

<400> 5778

cacatactgt gatccatcac cataggattc tatcaggaaa cattctccac agtcagatcg 60
atatatctgg ctgttatgtg gccatcaaag gcttatatat atgtgactag agacacgagc 120
ttgcaataag ctatacagaa cagaataggt cttatcctgt taaaaagcga tgtcgttcta 180
ttctcttacg aattccttgc ccaaaacact tgagattcag taaggagtta tatgagcgct 240
caccattgac atggtatctc tttcaagaga gaagtcgtca tctctttctt ttcactctga 300

<210> 5779
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5779

agctntggcc aaaccccagc agcagttggt ttcttagaga cttgtcttag caccttgtct 60
ttgagactga ggataattac actgtgtgcc ttttgacgta gtgctttctt atccccatca 120
gccatcatct tttcaagttt ggcttctcca tcaagtgtt ccaccaggcc ctgctgaaca 180
agaagagctc tcactttcaa tcgccataac ccanaatcat tntgccctgt gaatttttca 240
acctcactact tggccgagtc catttcttga atcgaactca aaaatcgctc cagctcacc 300

gcaccaatTTT ggtgtgccaa gatcagaatt tagttcacia aagagtgagt ttcttgtatg 360
aac 363

<210> 5780
<211> 417
<212> DNA
<213> Glycine max

<400> 5780

acacgtactg ttgtctgata ccaaagtact ctttctgata acaggctcaa cagacacatc 60
ttgttatgtg gatcttatgt ggccgtctaa ggcttatata tatgtgacta tggacacgat 120
atcctaaggt gttattcaga gcatgagatg tcttatcctg ttaaagagcg aagctgtgat 180
atcctcttac atatgccttg atcatgacac ttgtgattaa ataagggatt atttgagtgc 240
tcgaattgtc caatatatct ctttcaagag agattacttc ttctcttctt cttcattctg 300
aaccgggatt aacagaccgc cgttctattg ctgagaaagg atgttaagca caaaagaatg 360
attgcccttg tgtgtatatg attagtcaga gggatctaca tgatagtgga gctctca 417

<210> 5781
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5781

agccttctac ttattaatta tcataattta gtttanaaat aaccaagtag agaataatat 60
ataaattata tatttttatg gaattatttn tgtgaaataa atttataagt tatagattca 120
aatgtatgtc tcttttcgta tattaaaaaa ataatatcta tctatactat tataattcan 180
aattaatttg attattcaat atacaaattc aataagtatt ntatcaatta tttgaactat 240
caattaagta aactaacaca tantttgaaa ttactaatat tattattttt ctattntact 300
cctannattt aaactcantt tttttatggg cttcgtatta atcctataat atagaatc 358

<210> 5782
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5782

gcattacgga cctatgaaac tcagcttagc agcttattgc cataattcac aaacctagat 60
tccaaataac agcaactcan agtagttatt agatagcatg gaatatattt cattttttata 120
aaaaataaat actattttaag agaaagttaa ggatacaaat ataagaggat aagatatcac 180
ccctaacaga gcaaaacaaa tgtagttatt tgatttagta cataattaca tcaactgtaag 240
tgatgtatat tcacttacgt tttagcagcc tgcctgcctt taccaattgc agcaccgaaa 300
tatctctaga acaattacca aatgaacaaa tcattacaaa aataccacat ggaacttcca 360
aaaaggaata tcaattgcat gtgtaattat aaagaagtct ggaagttgct atcaaatgac 420
aaaaagtagc tcacatagga nacaccggaa ggttcaacca tgtacaactg tgggccatcc 480
ctgtcataac ct 492

<210> 5783

<211> 341

<212> DNA

<213> Glycine max

<400> 5783

ctcgaaatgg aaagttgaac ctatgagcca attcaaacga caataactta ttactcggat 60
gactgataga ctcccataat atatagagac tctctaaatt gaatgctgaa cctctgagcc 120
aattcaaacy acatataact atctactcgg atgttcgatt cacaggggta atatatcgtg 180
acgctctcat atgaatgttg atcttatgag ccaattcaaa cgaccataac tatatactcg 240
gatgtatgat tgatccccga aatatatagt gacgctcgaa atcgaatgat gaacctctga 300
gccaaatgaa acgacagtca cttttgactc ggatgatcga t 341

<210> 5784

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5784

agcttgactg acaactggag tcacatatag gtacaaagca acaatgatgt taaaacattg 60
aggaactctg tttcacctag gaatgacctt acctcatatt tagtaagaaa attatgtgca 120
aaaaattcat gcattattta aggctcttaa caatccccaa cccaccatgt ttgagatatt 180

attatattgac agttattgac tgtgcttgta caaatttcaa agccacacaa cagatttttac 240
aacatggcta gtttttggttc tgaaccacca cccatcacgt agtctagcaa ttgacatata 300
agacaacttt ggtagaatgt gcaaaagtta cagcaataag cataataatt aanaatgtta 360
atagacaaca atttaccgaa acaccagcag gagggtcacg ataaccagtt agaagtgcac 420
acacatagtt ctgacca 437

<210> 5785
<211> 455
<212> DNA
<213> Glycine max

<400> 5785

gagtttctga tgaattcttt taccactgat tgatgtctat gggatctaag tttcagaaaag 60
accattctc caacttcaaa acacaagtcc ctctcttctc tgtagcata ccttgtcatt 120
tgttctgag ctatgagcaa gacgtgagtt gagttgaatc aaagcctcat ctctttcact 180
cgactccaat gccgcagcag caaccttagt ctattatac agaaatctca acaatgcaag 240
aggttgctc ccatatacca cctccaacgg agtcatocca atagacacat gataggaagt 300
gttggtgcaa actcaggcca agggaccac aatgaccaag tctatggatg atcataagca 360
gagcaccgta gataactatc cagacacctg gctaccacct gcgtttgacc atctgtgtcc 420
ggatgatatg ctgaactcat tgtcagctta ttacc 455

<210> 5786
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5786

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gaaaaacctc gttggactcc taggagtaca tgataagaca gaccacacac tagtaagtca 120
ggtcactctc actaggtaaa atcatagga gaccagtcag ggtcactcta ttttgtgaga 180
aactccaac catatgagat cagcatagga ttcaaggaac attcaaaccg agtgtattta 240
gccccaggc ctacactcca aagagtcctg catgggcctc tccttctggg tcaggtccaa 300

cccagaaaaa ttttagcacg cagactctat ctatgaactg tacaaaaacac acgactcctc 360
aatggttctc aaaaataatt taactcgtcg cgcctcanag tgattaaact catcgagttc 420
ccacagtgga tcccatcata atattc 446

<210> 5787
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5787

ntcttgagan aacttccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 60
tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc cttgagaaga 120
ttcctaaaga agctagagct tagctacaca cacctctcta atagctaagc tcaccttctt 180
gagatgagaa gctagatctt agctacacac tcctataat agctaagctc acccccatga 240
caaaatacat gaaaatacaa aaaagtccct actacaaaaa ctactcaaaa tgcctcaaaa 300
tacaaggcta aaacctata ctgctagaat ggccaaaata caaggctcaa acgaaggaaa 360
aacctattct aataattaca aagaataaca ggctcatact tagcccatgg gc 412

<210> 5788
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5788

agcttgtagc agttgcaagc actcagactc caccacaaac gaggtaaagg agaggtcacg 60
agccatttgg atcaccata tcttanaaga tagagcatct tataactttt tatattttat 120
ttcccttcca tccttaaaat atgtaggggt aaacatgcta gtttggttat tcatggacat 180
atgcataaaa atatagtgtg gaacaagtta gccaaacctc tatcattaat caagcacaag 240
acanttatta ttttaacattg aatntatact atagtgaatt gttaaatacan atgacaaatg 300
agtccaccaa atattgggtt tcacgcaata ctagtgtgac actttgttat atattatctg 360
naaatattat gtaatcgagt ttttctc 387

<210> 5789

<211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5789

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agaaggaaga aagaccactc ttggagtggg ttcagacgcc aaggaaagag naataaggag 60
gctcaaagcc caagtccagc atttggatct ggattaagac atagagtcaa agatgataga 120
aaaacaaaaa tctatgttag atccttactc ctttttagcc cctccttctc ctactttcta 180
ttctccatcc caaaatcctc tagattactt ttttcccaaa gctagtccat catgggtcttt 240
acctatagct tctgcttata agaaaaaac agaaccacca aagacaaaac ctaccaaatt 300
aaatatctct ttccaagagt cagttgaatc tcccacaaaa ttagaaaaca ctctaaagaa 360
agatacccat gactnttaag attct 385
```

<210> 5790
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5790

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tgaggcatgc aagcttctct ttggcctaac ttctcttttc gtgtccattg ttttaatgct 60
agtttctttn tgcgctgctc atttctttgt gcttaaggat aagtacaaga acatcttatt 120
ccccatttat ggtgccactt gcttgcccgt gaccttctat gcagtgatc aatttccggt 180
gtatgttgat ctacttaaag ctatttttaa gaaggtgcc caacgcgcc aaagataagg 240
gttgccatth ttggttcttc ttactccatc ctcttgatc aatntaaaca gatcactagt 300
ttaattggaa tgtttgtacc agactaatgt cttatctgta ttttaattatg tctggaaaac 360
agtataccaa tttcatagtt tgggtggtgga atttgctcgc atttatatca tctcattatt 420
aatagccatc a 431
```

<210> 5791
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 5791

cttgtgaata ccaacatcca atgtgctgag accctgtgaa tgtctagaat ggagataaac 60
aactcacaca aatgtttcta tctaagttag ttatcgtcca atgatcacag agtacacgta 120
tacacatcat gaagttgatc aatgttctag aaactgttta ttttcattcc ctcataatTT 180
ttgaaatgct aatcatttga agttcaagtg tatattgaga caggttggca aaaaggtata 240
ttctctgcag actgttgcta ataaaagtag tggaaagcat aatggaaggg ataatactat 300
ttttaccttt ctctctccat ctcaagttgc catgttgcat cattaccagc tatgagagaa 360
caaataTTTT cgtgaaggca ctaaattcca caacggtcac atatttctag atgaccaagc 420
gcatcaagaa acaacttttg caatctgtgg tattgaagtg ct 462

<210> 5792
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5792

ganatgaatc atgcattacg gtcactgtca ctattcaaac tcgaggctgc ggctatacct 60
tggacaaaca atgccgtgct tttgtatgca accgcacatg aggcggaactg tagtaccgtc 120
tccgctacac taactgtatc ggagcgcgga tgcgctgctt tatectctat aagctttctg 180
ggctttaaca tgaacctccg gatggatacc atctgatctt tcaacgccga taaccgggtca 240
tcatctattc ctgcacaccc tctttattac tccatctttc tggatcgagc ggtatactcg 300
gtgcctggcg ttttcttatt tatcatgaat attcctacag aagatatact aatgtgaagt 360
atgcctcctc ccacaagcga tattgaaagt gaatcgatcg gagcacatgg atccacccaa 420
aggtttttag caacgtgatg agatcagaca ctctctttta tacataaaca tagcttcttc 480
tagccaagat ataccccggc gttactgaga ccg 513

<210> 5793
<211> 329
<212> DNA
<213> Glycine max

<400> 5793

agcttgctct ctaagctatt tatccaaggc actctgttgg tgtgaaagct ctccttcaa 60
tggcttattc cctagtggat ggcgccttct ctcacctctt ctcctttatc ttctgctaca 120

tctccatggg tgaaaatcac cattgaagga cctcattgaa gctcaaagat gcagccttca 180
 tagaagcttc tcacgcaagc ttccatcact actggaggat ccccatgaat ccttctttcc 240
 ctaacaaggg aagaccccca atagaaggca tagccatgga agctaagcag cgtagcgaaa 300
 ggaaccttcc tttcctcacg tgtatgatg 329

<210> 5794
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5794

nttcgattca ttctatgcac ccatgggtgg cccattgtg tttcgtgcan ttttattctc 60
 gttgtgttta ctttttatac ccctgttga cgtgcttaag ccattttact taagtcattt 120
 ctgcgttaac ttaaaaataa aatcaatttc caccgaacgt ttgaattgta ttatccgtta 180
 acttcgatta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa aataatataa taataaagaa aaacatcttt tagtaaaata aagcggaaaa 300
 tcaatcggac gttttctctt tgggatttct cattcttaat cgaattgatt aataactaaa 360
 gtgaaactaa ggctaaaatc aactcgccta gtcaagctcg tccacaaaaa taggcttttg 420
 aaatttgta tttcaatttc tcactaagta aaatggatca 460

<210> 5795
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5795

agcttgtgag tgtcatcatc cacactcctc aaccttccag ttaaggggtg atgaatattt 60
 gcatcattga ggatgaaaga ctaaaaaatt aagtgtatga tattaatata agaaatatat 120
 gtgactaaca tatcacatgt aagataaaag atcagttaaa aaagataact aattaaaaac 180
 aacatgacaa gctactaagg aaagaaatga ccaccaaaaa tgctaattta gatatccagt 240
 tatatataat atgaatgtgt ttggttttgt cctanaaata taaattaatt tttctttaca 300
 gaatttaatt tctttcattt acctacatct ttttttccca gtctaaatat ggaggagaag 360

ggataaactc atcacctcta cttgtacatn agtatattgg aatgatggga ttgtgttcat 420
 caaatcatan aactgtagaa tcacgatgat gtcttagaag tatgcacatg a 471

<210> 5796
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 5796

cctgagattg agagaaaatg attattaaac acaaaatgga agtactaagt atttattacc 60
 tataacttaat agaaaatact tataacacta caaaataacc ataaattgga agagtttgat 120
 acaatttaca caagttttat acacaaaagt tagtcgtatt catcgactaa caggtggaag 180
 aatgcgttga ataatagcac tatagttacc ttccacaaca attatgtcac tatggatgta 240
 caagttcttc ttggttaaca tatccttcaa aaatttggca tagaaggga tttgctgaag 300
 tgcttctcca aaaggcaagg taatttccag tttcttgaag ataccaagaa atctagccaa 360
 atgtcactct ttatcttttc atgagggtag caattgataa ggtacctcct tgcattcaat 420
 aggaggagcc tctttcttct tttctatgtt agcctcactc ttacc 465

<210> 5797
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5797

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 cttttctaga gagctctaga attttctaga acctctccaa ttaaggaggg atcccaacac 120
 atctccccct cccgacttaa ttggggggga gtagcaaacc ggcaccttgg ataccttatg 180
 tcaatgtgct ttggatcatc tgcaaggatt gcttctcttc ttgcatgact cttctccact 240
 ccaccaattc ataggtgtta ttctcatgca cggattccat ctcttcttgc atgactattc 300
 tccactccac caattcatag gtgttattct catgncagga ttgcatatct tcttgcattg 360
 ctcttctcca ccaccaattc ataagtgtta ttctcatgca aagatatcat ctcttcttcc 420
 atggctattc tncactccac caattcat 448

<210> 5798
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 5798

cgaaactaat tttgatatgc caaataaggc agagtttgaa catggctctgt taaggatatga 60
 tgccataact tgcagacttg aagctatggt tctgcggtat ttacatcatt atattttgat 120
 cttgttccaa tcaagcgaat tatcaagctc gcataaggaa ataaggtttag gtagcagtag 180
 tggcgatatt aattgctcat tgcttggttg ctatatagaa tataacatgc ctactttttg 240
 tactatgtat agaagttaga agtgcacctt cctttctctc ttctgcctca aaaagccaac 300
 atgatatgga ggagaacata ttctaattta tgacatgtaa cattaataac aacctatagt 360
 gctgacagat tagtctgctt 380

<210> 5799
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5799

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 agtacgtgag ctcatgttga ggtgggcaac aggggatggt gggtttatgc gcgatttgtg 120
 gatgtagaaa acttggtgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tcctacaagc ttgagatggn gaagtgtaga agggtgaaac ttctgcttt 240
 tattcattga ccacagagtg gtacctggag atatgtcgcg ggggtcagga gaccttgggg 300
 acgtcaggtg gngtgctatt gccanaacc aagcttgacc aatcccgacc caaccggggc 360
 atagtcagtc agtgagaacc tgtgatgtac ctaaacaggc gaagctctgg cagtcaacag 420
 ata 423

<210> 5800
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 5800

gcttaatggc tcaatgagca aggggaaatg atagtcaatc aacatgtaaa catacccttt 60
tctataggag actactatga tgacgtttta tatgatataa tccttatgga tgcagggaac 120
atthttgttg gtagaccatg gcaatttaac aagaaagaca tccacaatgg tctaccaat 180
gaaataaccc tcacccatgt aagcaaaaag ctcaaacttg ttcccttgac accttcacaa 240
gtggttgggg atcaagtaca aataaaactc aaatgggatg aggaaaataa taaaataaag 300
actagaagaa caacctttaa tggtaagga ggagtgtag gaggtaggtg tctcctccaa 360
taggttagct aagaagaaaa gtcattctgc aataaagaca aacattaaag acactttcct 420
tcttagacaa cctccacata ttctccttg taaaggacac 460

<210> 5801
<211> 334
<212> DNA
<213> Glycine max

<400> 5801
agcttctata ccaccccggt tctctcctcc ttgggcaaca tcaaaaagcc aaagtgcgtg 60
gtaatcaaca caagatgata taactaaagg tcacataatc aatcataagt caaaacccaa 120
tataatccaa tcattcataa gtcaaaacca aatataatcc aagcataaaa gactaagtac 180
caaataccga aagataacga aagttcagaa aatgataacc taaaaagcat agccaaatac 240
acggcttaca ataaaataga atgataatct ataactaaga aggtgggtgga ggtcaaagca 300
ccgacgaaga taagtcacat cctcttcaag ctgg 334

<210> 5802
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5802

tgcggactat acctttgaac aaacactgcc gtgtttctgt ctgagcccggt atttaaggcg 60
gactgcagca ccggctccgc ttcactaact gtattggagg cggctgccgt ggctttatcc 120
tctatagttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180
gccgatagat cggccttcat ctattcctgc acgcctctt cattatacat ttttctggat 240

cgagtgttat aggggtgcct tgggtgttttc ttagttatga tgaaattcct aaagaaataa 300
 acaaaggtga gtatgccacc aaaacatgaa tatgtaaatg aatgatcgga gcacttggat 360
 ccacccatag gttnttatgt aacgtgatga gtccagaact tctcattgta taaaaagaac 420
 agagctttca tctatccaag aatatac 447

<210> 5803
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5803

agcttctggt gggacatctt gacttgctnt ccaatctgac attcaccaca gattctgcct 60
 tcttctattn tcagattgng aatgcctcta acagcacctt tgtcaatgat tntcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcacg ttctttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgac ataggtaaca gttgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttaa cattgaatcc ttcacacac agctgactga tgttgatcaa agttgcagtc 360
 agtccttca ccagcagta 379

<210> 5804
 <211> 440
 <212> DNA
 <213> Glycine max
 <400> 5804

tcgaagggaa gagagagacc aatcacgagc acatagcatg gtcttaaaag aggagttagc 60
 tgcttgctca aggtccaaaa gaagcttgctc tcagcggtta tgcgagacag agaccaacat 120
 gttagccatc gtcagcaagt accatgaaga attaaatcta gccacgggtcc acgagcacia 180
 agtggcggac gagtatggac gagtgtacgc gaaaaaggag gctataggaa tggatgatcga 240
 ctggttacat caagaggcaa caatgtggat ggaccgattt tctcttactt tgaacaggag 300
 tcaagaactt tctctattgc tagccaaggc catagccaaa gcgatagcgg gcacctactc 360
 ccccccgag gagatccact gacttatcag ttattgtccg catatgatag acttaatggc 420
 ccatataatt agaaaccact 440

<210> 5805
 <211> 89
 <212> DNA
 <213> Glycine max

<400> 5805

atcgattgaa aacaactcca tataatgaac gctataccaa ggttctgacg aggatctagg 60
 actaccactg ttcattctac gggccaaaa 89

<210> 5806
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 5806

tctatggaca ctgaatcttt gaggtccttc aatgatgatt ttcagttata gagttatagc 60
 agaagataaa agagaagagg tgagaggagg cgtcatctac tagggaataa gcaatggaag 120
 aagaagtttc accaccaaaa gagtgtcttg gataagaagt ttagaaaagga agcttcaatg 180
 aagaaagata atgagagaga aaaaaagtgg tgtgggaatg aaggaaagat agggagataa 240
 gttaaaacttt gaagtgtgtc tcacaagact ctcatctac aaagttatga caagtgttac 300
 acatgtttct atttatagcc tagcacggga aactttcttg agaagctaga ggaagaaagc 360
 tttcttgga agctagagtg gggctactca cacccttca atgttaagtt caccatgc 420
 taaaatacat gaaaatacaa tgggaagctt tcttg 455

<210> 5807
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5807

agctaagtct atgatgtact tcccttcggt ctgtatgact atagatatga actgcgacgc 60
 tgtcaacttn ttagaatgac aaatcaaggg atacaaatca cttttgcccg tggttattga 120
 atatttatct gattttcagt gtccatgccc cctacatctc attttacaga tagtatataa 180
 cctttttttt ttctttttat cacattctgc atatgtacca tagaagatga tttcctgtgt 240

atgatcaacg accctgcaac aatttaaaaa ccccttactg tacttgtttt taaataggag 300
catttaaatga ttgctacttt tctactaaca cacttattta aatcagtttt tacaacatga 360
ttaattttta ataaacttac tgcttcatat cat 393

<210> 5808
<211> 138
<212> DNA
<213> Glycine max

<400> 5808

tgatgccgaa caaacattta ctaatcgaca tcatccagtt gttatataac gagtgaatag 60
aataaacaat ggccggatgat gatcgatata tggcttatgc tgatatctga tcaactacat 120
tgccgcaatt tcttatac 138

<210> 5809
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5809

agctngaaca atatagatta atctaacgac tataaatcgt ggtgaatggc atacagtcag 60
tacacaaaaa aatatttagc cctaaagacc aggcttgtaa tgtatataag cttctaaaaa 120
tatacatgag ttgaacagca aaagtctcct agggcttcca acatgggtatt tgcacaaat 180
gagaaacaag aaatctccaa atctcaaaaa tcaatcctaa aaatagttta acattaacaa 240
aagagggaga atctttcctg acctttccct ctgccgatta gcactatcaa tttctttact 300
tttaggggtat gtttggttta aaggaatgaa aggcgtgtta aagtgacaag agatgaaaga 360
tttgaattaa agtagtgtat agatgtgcaa cccacaccaa tttctaanat tttcatctca 420
gatacaccca agatgaaaga accaaacact a 451

<210> 5810
<211> 462
<212> DNA
<213> Glycine max

<400> 5810

tctatggaca ctgaatctct gaggtccttc aatgatgatt ttcagctata gagttatagc 60

ataagataaa agagaagagg tgagaggagg cgatcatctac tagggaataa gcaatggaag 120
aagaagtttc accaccaaaa gagtgtcttg gataataagt ttagaacgga agcttcaatg 180
aagaaagata atgagagaga aaaaaagtgg tgtgggaatg aaggaaagat atggagataa 240
gttaaacttt gaagtgtgtc tcacaagact ctcatctac aaagttatga caagtgtctac 300
acatgtcttt atttatagcc tatcacggta aactttcttg agaagctaga ggaagatagc 360
tttctttcga agctagagtg gggctactca cacccttca atagttaagt ttcccccatg 420
ctagtataca tgaacataca atgtgaagct tccttgagaa gc 462

<210> 5811
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5811

taattaaatt ctgtcactac tacantttta cggccgcaga atgtcgggtg tagctgaaat 60
tnttttatga cagaattgag aatcggaatt caggtgtatt tcgaataatt ctattataaa 120
taaagcatta acgtataaca aataagaaat ttataacatt aatttaaaag tactaatgat 180
tttattaaac tgtaagcctt agtaataaat aattaanaaa attatttata gaattaagaa 240
ataatttttt attaaaaata tcatangatt acattaaaag ttataataaa aaaagcgtat 300
tcataaaac 309

<210> 5812
<211> 272
<212> DNA
<213> Glycine max

<400> 5812

atgacctgca agtcgcttac ttatatctct tacttcgtta agaagacgta gcttgaaaca 60
actacatgat cagctaagat aattcaatct acacgctgac tttatcaaat ggtcaatgtc 120
aacgcacgct gcgcaccata tagctaagac aagctaagta tctccttctt aaaacaacat 180
tttcacctac atatccgact attcaccaga tgtcaagcga gtatcctgct ctagatatgt 240
aatgatgcac taatttacca taggaacagc tt 272

<210> 5813
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5813

gcaagcttct aaggaagttt tctcaagaaa gcttctcaag gaagctacct agtctataaa 60
 tagaagcatg tgtaacactt gttgtaactt tgatgaatga aagctntatg agatacactt 120
 caaagntcca cttctttccc tctttttattc cttcaatttc gggctcccc cttctctctt 180
 tcttttcctc cattaagca tcctcttcaa gcttcttata caaggcaatt cttggtggtg 240
 aagctccttc tttcttggtt tattccctag gggatggtgc ctccctatac ctcttctcct 300
 ttgccttccg ctgcactctc atgatgaaaa atcac 335

<210> 5814
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5814

tcttggtggca tattagatta tgagtgggtc ttttgattat acnnccacat tataggcttg 60
 attcatgctt acggaactta cataactcaag ctcaacgggtg acgccgatct gcattgaata 120
 atccacatct tgcgttgtca ttgagaagag agagagatac aagtgcgacg caatagtatt 180
 aagctaccga atgaaattgg agggcaaaaa gcgcgaaatc ttttttataa actctgttct 240
 gtaatcattt ttgatataat gtggagggtg taatatgttt tacagcagac ataaggacgt 300
 acggcgtatt aatgaattaa tgaccatgtg tagtctagaa gaagaaaggc ttgtaaggag 360
 attggcgaga gggattgttg taaagagggt tggaaaaaac aaagaacctt ggttaaacct 420
 aagagaaatg gactggtgca atacctgctt aaactgatat atagaaggct gcaaacgtgg 480
 tttctttata cgataaatgg cacaaatgaa gaatatattg cgcacatgcc atataagatt 540
 tgataagaaa ggaag 555

<210> 5815
 <211> 370
 <212> DNA

<213> Glycine max

<400> 5815

agcttatacct tatggctagc ctccggactt cactccccgt gccactccgg aagatttaag 60
ccaagcccct acttttgagg ggcaactccc gccttatgac gactatcccg ggcaagatga 120
tgaggaagga gatacccatc tcggccccct gctccacctc aaagatccat cccacatga 180
actaccccaa ccaaacatag tccgccatat cccggcctca cccacacccg taaaagaatc 240
tgttcccttc gcggaagata agggaaagat agaggcgctt gaaaagaggt aagagcagtt 300
gagggccttg caattacca ttctcggatt tagccgattt atgtctcgtg cccaatatcg 360
tcatttcctc 370

<210> 5816

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5816

atgattcgat gcctgcgaaa cctgaactat taagactcag cttgtgtcgg gtacctaccc 60
ggtgacgagc caagatatat gtttaacgaa tgagaaacgc ccaggagcgg actatgcctt 120
tgcgaaattc ttcacgcgaa gtgttacaga tacgagtggg aagcgctga gtttatactg 180
ttcttcacgg taaccgatgt acaacgcnat tcaatgagag ggaagngcct tacgggatga 240
acacattgct acttcgggta ctcacctatt tatagccaaa taggggaggt ggttgacgac 300
cacctggccc acacaagcca gagtgtttct tgcatagac acagtcttgt tgaagaatat 360
attggaagga ccatggagtc tggggctatt tgatcccat tttttaaga caccctactg 420
tctattcggg atccttttac gaggaacggg acaactagtt caactaaacc ggtctttaga 480
acggct 486

<210> 5817

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5817

agctcttcac agcaaaagag taaagctggt ctatgtcatg tttatcccga ctaaanaagc 60
 attaaaatat tgaccatcca gacctagaag atgaactttc gcagaattta tgggggtcggg 120
 aaatcaagag gggtaaagag aatcaagggtg aattttcttaa accttaatac tagacaaatc 180
 agacactagt actaaggcaa aacgaaattc aatgacccat catgtcattt agtgcctaata 240
 tttctacact gttagattaa aggtcaaaat accattattc tgctgggtcac ggattcttat 300
 catatgtaat gtgaccacaa atagtcacta aaatagttca ccttggttgt gttacaaagc 360
 tatgtaatta ctatatgtct gaccatatga ccaacctgct tgttgagccc aaacaatata 420
 ttgcttagta tgagttaatt atatacaatt gccatttgaa tctgga 466

<210> 5818
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 5818
 cgcgactatg aattggaagg ctcttgaggc aattcaccat tgttaactgc ctcacaatag 60
 atctgctggc atgaaaaaaa atagagtacg catttcaacta ggaaaacttc agcatgcact 120
 gcagcattct atagacaaat ctcgtaacaa cgtaagttat taagcttata tatctcacat 180
 tgagcattcc ttgactatat gaatgtccaa agagaaaaac atatgccaaa ggggtgtatat 240
 cattttactc acttcatggt tgcctgtgtc aatgccattg caagatgcta gaaagaagta 300
 cgagttaggg tcccttgcta atgaactctg tattctggat acaggctcag caacagttct 360
 gaattccagt gttccaacac cagttgaagc tattaaagga gttaaag 406

<210> 5819
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5819

agctttcacc agatcatata agataaatgc attcaggcaa tctgcagata tatectccca 60
 aacgtcaaata tctccgccta tatattcaac ctttccatca ctggcacgtg gagtgaatct 120
 tcttccatgg tgcaatacta aagttatatt gtcattcatt ctacacaatc agaaaccgca 180
 nacatgggtca gatattatga aataaaaaaa cctacctcan aaagcgtgaa gacattgaca 240

ttgtcaaaaa ccgcgaagac acaatcaaaa accaaaaaca ttgtcatcta taaaaacaga 300
gcatacaaaa cgaaattaat aaacgatcat aaacctccct acgaagcgcg aagacaatgc 360
cgcagatgaa acccctcgaa catgtaaa 388

<210> 5820
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5820

tcagaccaaaa gcaacatata atctaggtat ccaaaacccc tcaatttaat ggattatcaa 60
ggtttgagaa gtgaaattga gaatgatgca aatttgggct caaactctca cctcacacaa 120
gtctataaca tcaatctaaa cttgctcaaa ctggatttgc acctaaaatt ccaccgaatc 180
aaaatttgac tcttcaacac ccaattttac cctataaatg gctctttgct cactatggcc 240
atttggtttt ctctcttgca caaccangc ttgctcataa gtcctaaatg acatttcaaa 300
ctatgattaa ctcactttaa cctccaaata ccactaaatc cagatttggc cttctgactc 360
tcaaaaactc actctttgtc cactcataac accatattct cacttttctaa ccctagggtta 420
actctaccct tcatccctag cagttgctca taagcaattt cagca 465

<210> 5821
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5821

agcttctggt gggacatctt gacttgctnt ccaatctgac attcaccaca gattctgcct 60
tcttctattn tcagattggg aatgcctcta acagcacctt tgtcaatgat tntcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac cttcttggag 180
gatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gntgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgagtc 360
agtcccttca ccagcagtac tttgttcaga ctangaangt catcatgaac tagctttcca 420

tgccaatgat c

431

<210> 5822
<211> 453
<212> DNA
<213> Glycine max

<400> 5822

taacatgaga ttccaacacc ttgaattctc gcaaacagct taccaaaaac tcacatgaat 60
gtgaatctca tgatctcaca taaagtctaa tctaattcatt aaataacatg atctcaacca 120
cgtcttatat catcattaag aaatcaacca acacaacca agatattcat taatcaacat 180
aattatctca tcatcaatat aatattctca acaacaacat gatataattag ccatagtaca 240
aggatagacc aaacatgaa taataaatgt gcgtcactat accattgtga caactttata 300
cctcatgggt aaggttatca aaacatccca tacgtcttgg gttactatct ccttcattat 360
ctattatgtg gctatgacct tcatagctta tagacatgat aaataaggat atactaactc 420
agttaagttg gttcttgtct catgtgaaag cta 453

<210> 5823
<211> 268
<212> DNA
<213> Glycine max

<400> 5823

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggcg cctgccttct cctcttctcc ttgacctcc gctgcatctc catggtgaaa 120
aatcaccatt gaaggacctc attgaagctc acagatccag cctccataga agctccacaa 180
gcaagcttcc atcaactcgt gacaaaatta aaccctccaa catccctaaa tcatcttaaa 240
catagccaga cctgcatgaa aaatcccg 268

<210> 5824
<211> 382
<212> DNA
<213> Glycine max

<400> 5824

ctaacaagca ctctgggtcat gaaatttccc tctcttcggc tcaccagtgt gaaagatgtg 60

cgtgagtaga taatgcaaat gcaagatatt tcaactcaac ttaagaaatt gtgaggttaa 120
 tatgcttgag tccttcctga taaacttcat tctgaacaca tttctgctag aatatgggtc 180
 gtttaagatt tctacaaca tacataatga caaatggtct attaataat taatgaccat 240
 gtgtattcta gaataaaaaa tgcttgtaat ggagacgggt gagagtgtat tgttgtaaac 300
 tgcttggtggg aaaaacaaag atactaagtc tcaagctaat cagaaaggga ctggtagaat 360
 accaccttta gctgatattg ag 382

<210> 5825
 <211> 260
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5825

agctnttcaa tcaatctttg gctagctaca ttagtgcaac taccncatc aataatcaaa 60
 gagcatattt tcccatgat catgcaccta gtatgaaaag agttcttctt ttgagtttca 120
 tctctatcct ttcatgcact cccattaac ctccctaacca tcanaagatt accttccagg 180
 ggttgtgcat cacattcact ttcactctca ctagaagaac tagaagagct agaagaagat 240
 gcactagtga tatccccatt 260

<210> 5826
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 5826

cggttcgagg tacttaccgg ttgaagatcg aagaatgatg aagaacgaat gaagaacgtc 60
 gaagaacggg cgaaaccttt gcgaaattct tcacggaaag cgttacggaa acgtttcgga 120
 agcgctcgg cttatatattt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagtgcct aaggggctga accattttct tcttcacttc ctcccctatt tatagcaaaa 240
 taggggaggt ggttgacgcc cagctcgccc aggcgagcca ggttgcttcc tccataagca 300
 acagccttct ggaggaatat tctggagggc ccaagtgggc ctgggtgcta tttgcacccc 360
 catttttact aagtacaccc cccactgctt tatttggcga ttcctttttt cgtaaagtta 420

cggaactta cgaatgtcgt aacgatactt ggtttctttc cgtaat

466

<210> 5827
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5827

agcttcaacc tttggtgccc atttctgctc caaatcgca aaggaggga ttttcgaagt 60
cgtgatgtgc gtgtctacga gtgggacttc gaaatttcag gtttgggtgg acttctttct 120
ctcttgattt tctgtgggtat ggggttttgg gaaatatgat gggtagtggt gctaagtttc 180
tgcttcatga tagttatttg tgaaggaatt tgtggaaagc atgttgaaat tgccatgttt 240
ggatgagtta aacataccca ttctgttnta gggtttttat gatgatgctc gtgatgttca 300
tgtgctgaaa tttcttatgg aaaactgtta gagatga 337

<210> 5828
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5828

tgcgannagc cactccatc attaggattt gttcctgcca tctcaaaca acaaatcaaa 60
cataacaaga caattatagt tggtgtttga atacctcacc cactcaagtg tatcacacaa 120
ttatggcttt tctctaatga aacactcttg ccttttacca ctctaattcc ccttgagttc 180
ttaggcaatt caagagatta tggccacaac aaagaacaat tcaccaatat gtgtaaggta 240
aggctggaga gacaaggaaa aggttaacca agaaaaaggc taacaatgtt ttaggcaca 300
attgaaggaa ataaaattca gaatttagga attcaagtaa caatccttca tacaaccaat 360
atattacctt aaagagatta tttttaagtt cttcaagcat gaaccattca gccagattn 420
tctttttttc tttctaattc tgcttatatg a 451

<210> 5829
<211> 346
<212> DNA
<213> Glycine max

<400> 5829

agcttctatg ttcaatatcg agcgtttcaa ttaattatgt gcctgaatcg gacatccgag 60
tgaaaagtta cgaccatctg aatttcttga gaacttctat ttttcaagct caagcgctt 120
tatatatcat gggcctcaat cgtatatcca tctcaaaagt tatggtcgtc tgaattggac 180
aagagctttc gtgttgaatt tcgagcgtct cgatatattg tggacctgaa tcggacatcc 240
gagtaatatt ttatgaccat atgaatttcc ctacaactta cagtattata taaggagcgt 300
ctctgtatat catgggactc aatgcgacat tcatgttaaa agttat 346

<210> 5830

<211> 418

<212> DNA

<213> Glycine max

<400> 5830

tcattaagag gcttctcca gaagcttcct cgtggcttct atgagaagct ttctcatgag 60
gcttctgtga gaagctagat ccttatctat ccacaccctt ctttgaactt aattaacctc 120
cttaaaaata attacagatg aaaataacgt acccaataat caaacatcaa acataattac 180
taataatata tagatatata tatcaggggtg atacagctct ctcacccttt tagaaatggt 240
gtactccaaa ttgaccatac tctaacaatg aatggcgagc tgctcgcatc taactatcta 300
agttccacgt ggcatattct cctgatgcac ctgccc aaat caccttgacc aacggaatca 360
ttttgcctct aacgtgttat gttagcctat cctcgaacct cagaggcaat gcttcata 418

<210> 5831

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5831

agctntgatg gtgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg cggagaatgt 60
gaatgtatgt atacatgatt gtgatgatgt caaagaagaa tctaacaagg ctgcttcaaa 120
tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaaag ccttgtttca 180
agattcacta aagaccaagc cttggcctta acaaagtgc tttcaagaca tgcaaggctc 240
tggtaatcga ttaccaggaa gtgtaatcga ttatcagaag acagggttga gaaataactg 300

ttgaaaaatg tcttgaatgt gaattctcaa catgtaagtc gataccatat 350

<210> 5832

<211> 508

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5832

ctgacttcat ttgccctccn gtgacttacc tgacactatc tagaactcag gtctggagaa 60

atacacgggc tggagatatg aactgttatg tagtttagag caacgagtga gaacgctctg 120

aggcattggt acaatcatct accatctcgt ttgctgaacg aggaggaaac acctcggtt 180

ataatttgcc taccgtagct aatctttctg tggatgctga atgaatcatg gaggcctcat 240

gcgccgtccc tggctctgat taccttggcc tacgactcat agccatatgc aggtggttgt 300

tgacggccac ttcgtgcata cgaggcacgg ggcactcttc ttctctgaag actgatggga 360

gacgatatcg acgatcatag tgatcaggga gctatgtgta gctcgctttc atattgcacc 420

ccagagtgca ttatgaggga cttattgatc cccacaaacc agtaaaactcc taatttctga 480

cccgatactc agaacgagca gaccatcg 508

<210> 5833

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5833

gcttatcgta atcgattaga taattatntt ttagacaatg actgggtttt tatgagtctc 60

tactttaatc aattaccagg tgatgtaatc gattacttct ctcttaaaag agtttctgaa 120

tgatcaata acactttatc gattatatga agaactaat tgattacatt gttcttgaaa 180

gttttccaga ttgtgcgaag aatactttaa tcgattgaaa tgataatata atcgattact 240

tctttgaaat aattgattac attgtatatt taatcgatta catgcgatta taactatntt 300

ctctataaat agccaccttg tgttctcact tcaatgtgga aaaattaagt gtgaaaatat 360

atgagttgaa gtaacagatt aagagaaaag aataaagtgc ttagatacaa tgtgactcac 420

aacttctaata ctttgattat gaagatcata 450

<210> 5834
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5834

tgtgcaatct anagccagtc agtttccaag atgaaattnt ggaaaactgg atcccttggt 60
 acttgaaggg tccatctcat ggacaagaac ttcagcaatt ttgggggaaag gaacataagg 120
 aagttggctc gtggccgagg ccaagacgtt tcctttctaaa tcacgacaaa ctacgcccac 180
 gccaattcca ataccgttct tgcaagcggc atcaaagttt aattttatta attgctgagg 240
 gtggacacca tctattctga tgagtcactg ttgtggcggc tctaaagcac tgtgtctcgg 300
 caaataaccc aataggaacg atcaataact aagcttatgg cggttttctt ttgctgaaag 360
 atccaattat tccttcttcg ccagattgac cataacatcc caaacatctg ctgtgcaaag 420
 ccctctatcc ttggtttcta agcatcatat cagccatgta ttaaacga 468

<210> 5835
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5835

cattgtgcat gtccctcaac ctatccacat tgtgtacntg aacctgacct tgaacctcac 60
 ccatgttttg tatctcacac cctaagatgc atgttcttga tattacgtta caaggcatca 120
 aaagtgtttg cacgcgcagc cggagaatgt gttcgtcacc tgcggatcac ggnggtggag 180
 ctctgtgaga ggcttcaaac cattggagaa gaactctctg tttatgcaaa caatttgggc 240
 gtcaacttgg agttctcggt ggtggagaag aatctggaaa atctgaaacc agaggacata 300
 caatggaggg aagaatacgt tcttgtggtg aatagcattc tgtagctgca ttgcat 356

<210> 5836
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 5836

tgtatgcttt gtctcttgca cagtatggta aggtatgcga cccagcattt ctgacgcgat 60
gataatgggt gaaaggggat atagagatat atgggtataaa tagcgatacg aactgctacc 120
actgcaaaaa atgtattgtc cctaattgct cactctgtat aactcactac attactctct 180
gctctatata cataatttca atcgcttagt ggagctatag atggcgcttt ggccaatttg 240
atcattaggt tgtctgacct gtaaattcat tggtaatcat agacttacta tgagatatga 300
taccctaga aagtaccatg tacgtatact aaccactgtc atgataactg gcattctgac 360
tctcgaaagc tcactga 377

<210> 5837
<211> 379
<212> DNA
<213> Glycine max

<400> 5837
ctgcagctta cttatgaagg gtattccctc tcgagctctt tttttttttg agatgattca 60
ttttcctctt ccatgcaatt tgtggtgatt cttgtttaac ttgtgaccgt ttataatcct 120
aaatttatta ctaccacaaa ttattatatg taagtttaga ttactaaaa tattatttgg 180
gaccaaaatt ttacatattt taattctatt aggacaaata aaaattctat aggaacaaaa 240
ttaatttttt ttctatgtta taaagaataa aacatatttt aacctattat ttataatacc 300
tatattgggt atccatgaat agttttccta ttttttatgg cttagagggtc aacatgagag 360
aggggtgtagt attgtattg 379

<210> 5838
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5838

ttacgtgaca ctatgaaact aagctgaata tgctgaagat tacagttgct ttaggagtat 60
aaaccacatg ttatcaacac caaaatatca gtcataaata aatctttgat aggatgagct 120
tcaaactgta tgctttaaga agaagaaata tatataaaaa ttaaaaacat accactgaga 180
atactttttt gactgcttaa taaatcatgt ggaccacatc caccttcact ggtagttatc 240

tcctaggtat agccctggaa aagagaggca gatctttatg cattgcatat cattacatag 300
 taaatacaag tcactaatct tctacaaaaa ttttaattta ttatgatatc atactatcat 360
 agtgatgaaa agatttatgt tttgactgat taacaacatt ttaaaattag tgtgcaatat 420
 gaggaacata aaggataccg agaaacaaag aaatacctaa tatntgacac aataatacag 480
 accgaagtag aatata 496

<210> 5839
 <211> 259
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5839

cccttcaagt aacgaagaat tctttttgca gcttttatat gagaagaggt aggagcctcc 60
 gtanagcgac acacaactcc caccgcatat agaatatcgg gccttgtatt ggtagatac 120
 cttanactcc ccacaagact cttgaagacc gtggagtcta ccttctctcc ttcacatcanac 180
 tttgataact tcaagccacc ttccatatgt gtgttcacgg gattgcaatc aagcatatta 240
 aatttcttca acacttctt 259

<210> 5840
 <211> 487
 <212> DNA
 <213> Glycine max

<400> 5840

ggacacttaa atactaagct taagggtatg acttcatggt gctcacccta tctctaagac 60
 acacaccaca aattctctctc atgtcagcct ttgcctttga gttccacca tatttttagtg 120
 caaaccaaga acctgagaag attatactca ttctttacgg ctggggttagg ttgagtggat 180
 tggaagcaag aaaaaaatac tcctccggtt actatttaca aaaggggtgtt gtcgaattta 240
 agctaattaa gtattaacaa gtactaatat caattaatga gacattagga agtaacagta 300
 acaattataa gaaatagtat caattatcaa tcatcaatca tcaatcatca attgatatat 360
 tatcttatgt atagatcata aaataagatt ttatcacata acaatgacta tgttcggaaa 420
 aattaattag aaactacaaa tctagctaata aactgacggg tgtatatata tatatatata 480
 tatatat 487

<210> 5841
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5841

gagagacctg aggcattgcaa gcttccaaat tagtgtacca cactaccgct tctccggttt 60
 agctatcttg aaagaagtgt attaatagct tttcatcctt agagtgggcg cccatcttac 120
 ggagtagcat cttgagatgg tttttgggac aaggctgccc tttatacttg tcaaagtccg 180
 acactctgaa cttcggngga ataacaacat cgggtactaa gcaaagatcc gtcattgtctg 240
 cgaacggata gtccccaat ccttccacgg ccctcaatct ttcctcaagg agatcgaact 300
 gtctcctttc ttcaggtgct gagggcggtc cttcctgga caaaactatt g 351

<210> 5842
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 5842

agcttagcta cactcacctg ttcattgaact atgctcacct ccttgagaag cttccttgag 60
 aagctagagc ttagctgcac acacccatct aaaaactgag ctacactcct taggaagcta 120
 gagctcgact acacacagcc atctaacaac taagctcacc tcgttgactt aggacatgca 180
 agtgcatatg gccacaagac gtgcctacta caaagactag ctgaaaggcc cgatggaaca 240
 acgctgaaac cgtatactac tagaatg 267

<210> 5843
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5843

agctgttcgc acaacttacg gttaaattctg tgacctagcc atggcagaag tctccacaga 60
 ggccattgcc tccctcgccc agtattatga tcagccgttg agatgcttca cttttgggga 120
 cttccagcta tcacccatgg tggaagaatt taaagagatc ctacgatgtc ctctaggggg 180

aaggagacca tacctattct aagggttcta tccctcatta gctaanattt ctaagatagt 240
 ccaaattctca gcgcaggaat tagaccacag aaagcaactc gaaaatgcgg tggttggaat 300
 accgagaaaa tgtgtggagg caaaagcaag aatcttggta ngtagaggcg aatgggcccc 360
 gttcatagac attctcgac tgttgatctt tggaggagtc ctctttcaaa tatggatg 418

<210> 5844
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 5844

tgcttttaca acctaagcac acttagtgga gaatcctgga cttgatcttg gattagtggg 60
 ctaaaccata gctaaatttc actaatcata attagtgaaa ttttggctcc aaatttggct 120
 ccacaaattc aaattcaagt gaaatttgaa tagaaattca aatttccttc caattttgtg 180
 tgacacttaa gctataaatg gaggccttgt gtgtgcagtt tttcaacttg atcatttgag 240
 aattacactt caaagttcat acctcatttg aggcttgaaa tttcgtgctc cttctctcct 300
 tctccctcca ctcatcttct cctaccttca agctcttate catggcttcc tatggtggtg 360
 agcttgttct tgactcatct tctcctttaa agtgacattt ccaatcatct ttcttacttc 420
 tccattctgc tgccattgat cttcaagaag taaaggact 459

<210> 5845
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5845

agctntcacc agatcatata agataaatgc tttcangcaa tctgcagata tatcctccca 60
 aacgtcaaaa ttctccgcta tataatcaac ctttccatca ctggcacgtg gagtgaatct 120
 tcctccatgg tgcaatacta aagttatatg gtcattcatt ctacacaatc agaaaccgca 180
 nacatggtca gatattaaga aaataaaaaa cctacctcan aaagcgtgaa gacattgaca 240
 ttgtcaaaaa ccggaagac acaatcaana accaaaaaca ttgtcatcta taanaacaga 300
 gcatacataa cgaaattaat aaacgatcat aaacctccct a 341

<210> 5846
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5846

tcagacccaaa gcaacataaa atctaggtat ccaaaacccc tcaatttaat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaggta aatttggggc aaactctcac ctacacaaag 120
 tctataacat caatctaaac ttgctcaaac tggatttgca cctaaaattc caccgaatca 180
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc actttgggtca 240
 tttgtttttc tctcttgac aaccaagct tctcataag tcttaaata catttcaaac 300
 taggattaac tcaacttaac ctccaaatac cactaaatcc agatttggcc ttctgactct 360
 caaaaactca ctctttntcc actcataaca ccatattctc actttctaac cctagggtta 420
 ctctaccctt catccctagc a 441

<210> 5847
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5847

agctgtagtt gtatccctac ttttaagggg attctngcat gctgattggg ttttattatc 60
 ttgtgcctag ctnttttagtt atcatgcata ttgactattg agctcctggt aggtcttatt 120
 gcgctacgat tgggtgggtc ttgttggatc ctttggttgt ttgggttggg tccaaaacat 180
 ataacaaata ttttttttgg tacagctgat aataatacta aaacttcatt ntatcttagt 240
 ttctgcatgc agtaaaataa aaaaaatctt agtttcgtca catttcatta catcctaata 300
 ctaaagtana ttcatataat aattacttgt ttctaacatt attttctacg aatccctaaa 360
 aaaccatgta tgtattttat attctcttcc gttcctacaa gctatttttg c 411

<210> 5848
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 5848

gttccaacat ccaagcataa caacattcaa acagcataag ctatcacagc caagcaaaac 60
agagcaaagg cagaaaactc tgctcaacac atcaacccaa atcacagctt ttctcactta 120
aagaccacag taacaattcc tttgatccaa ttogttaacc gttggatcga ctccaaaatt 180
ttactggaag tctatagtgc ataagcctac attttgaccg ttgggatcta ctagaaaaca 240
tccagtactc attctgtact actctttcca cagcgaacca cacacaagca ttttctgcac 300
caagctaaaa tcttgctgca cctattttga cagcaaaatt ctgcataagt gcagatttcg 360
aaaatcacac tttccctcat ccaatcttgc tcaaaacaga tactacaagt cccaaatcat 420
gtatcataca tg 432

<210> 5849

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5849

agcttctttn ggaccttgaa caagcaatca tctcctctnt cagaaccatg ctatgtgctc 60
gcgactggtc cctttcttcc ctctgcaact tgagttcatt attgctaccc catagaagct 120
ccgcgaaatt gttccggcca tactcttctt tgcgagccct cttgggtctct ttttcaaggg 180
ctcttgcggt aattgcattc tcttcccgta acccggcgca ctcttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ntgcctttcc taactcgctn ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact tttaactngg 360
cgagccaatc taaacctcgt atg 383

<210> 5850

<211> 416

<212> DNA

<213> Glycine max

<400> 5850

tccattggtt gagttttgct tcccttttca cgctctgttt cactccctac aagtaagtgc 60
actctgcctt ggttatttgg ctctccattg ttgtgttttg gtgcttttagt tgctcatatt 120
atgcgaaatt cgcgaaagcaa ttcacatatg aaaccatact tgttttcgct aaattaaggg 180

gttgaaggg atggccttag gcctatgttg cattctggag taatggggca tgccacattg 240
 cccccattct cttgctattc atgcctaaac atgtgccac caagtgctcg gtatagggac 300
 aacatgtaga ggttaaaatg agtgcctgaa tgcgaatcta ggcctaggaa cccaagcttt 360
 tgatttcaat acaagaaagc gtaaaaatga gggcattatg ataggaattt cccttt 416

<210> 5851
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5851

agcttgggtct aaaattcctc gaaaattagc tttntatgat tatatcggaa ataatccagc 60
 aaaagggggg ttatttagag cacgttcaat ggacaatgga gatggaatag ccgtcggttg 120
 gttaggacat cctgtcttta gagataaaga ggggcatgaa ctttntgtac gtcgtatgcc 180
 tactttnttt gaaacatttc cggttgtttt ggtagatggg gatggaattg ttagggccga 240
 tgttcctttt cgaagggcag aatctaaata tagtgtggaa caagtaggtg taattgggtga 300
 gttctatggg ggcgagctta atggagtcag ttatagcgat cccgctactg tgaaaaatat 360
 gctagacgtg ctcaattggg tgaaattttt gaataaaatc gtgctac 407

<210> 5852
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 5852

tacttatctt atagtttagg tgctttatct gttattgggt ctattgcttg atgctttgtc 60
 tggtttaata ataccgctta tcttagtgag ttttacgggc ccactgggac agaagcttct 120
 caagctcaag catttacttt tctagttaga gaccaacgtc ttggggctaa tgtaggatct 180
 gctcaaggac ctacaggttt aggtaaatat ctaatgcgtt ccccgacagg agaagttatt 240
 tttgggggag aaactatgcg cttttgggat ttgcgtgctc cttgggttaga acctctaagg 300
 ggtccgaatg gtttagactt gagtagactg aaaaaagata tacaatcttg gcaagaacgc 360
 cgttctgcgg aatatatgac tcatgctcct ttatgttcct taaattccgt ggggtggcgta 420

gctacagaga ttaatgcagg caattatggt tctactagaa ga

462

<210> 5853
<211> 399
<212> DNA
<213> Glycine max

<400> 5853

agcttggttca tatagtttca acctgaggtt ctttaaagac ttagtaaaaa tatcagccaa 60
gtgctacgag atctatcttt atgtgttttag tatgttcatg gaagactaaa ttagatgcaa 120
tgtgaagaga gcaacttgat tttcacaaat aagcttagtg tcttgagtgt ctccaaactt 180
taattgttgg agaagttgcc taagccatgt aatttcgcat gcaacttctg tcatggtata 240
gtattcaact tcagcgctgg atctcgcaac tatatttttg cttttgcttc tccatgagat 300
caaattccct ccaagcagaa cacaatagcc tgaggtagaa ctctgtcca atcagcacta 360
gagtaacaaa caattttgac attgtcttcg tcttcatat 399

<210> 5854
<211> 409
<212> DNA
<213> Glycine max

<400> 5854

tagagagaga aatgcgtaga gagagaaaca ctgtgtgggg gagagatagg tctagaggaa 60
aggcatttca aagtgcgga gagaatccta tggaggcaac cgcacggctt tatgccagag 120
acataggaaa agcccatcaa cactatgttg tgacgaactg gagagataat atggatatca 180
catactgtta ttttaccat tttggagatg atgttacaga aaggagcta tggatcatt 240
tcaagaagtg gggagacgcc cgggagatct tgataccaca tccgtataaa ctacatggga 300
agaaggtatg gacttgcct attcaacggg atacgatata ctagatacac cgtcaggcag 360
ctggataaca cattaaatcg gcgggctgaa gctatatgtt aatatccct 409

<210> 5855
<211> 431
<212> DNA
<213> Glycine max

<400> 5855

agcttataac tgacatatgc caatgcatgc tctttccaca ctacgtggtg gaacaataat 60
 gtgtcatgat gccaaactcaa cactacatgc attgggaaga agaatgatcg atttgcaagt 120
 aattaatagt agtatatata ttagggaatt gtagtcttct gaaaaatttc ttaacttttt 180
 ttatcatctt atttttaaaa tattagactt aatttcactt ttttctttta aatattatga 240
 tagtataact ttaatccttt tatttttcat tatgggtcaat aacttggata atttttttcc 300
 ggaaccaatg ggattctaag agagtaggag ttataaagtt tacctgatga ttgtgaaagg 360
 agattaagca taaagagaga aggagagata ataatggatt tgaatctctc attaccttct 420
 aaaaataata t 431

<210> 5856
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5856

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 ctcaaatatg tggggcaatt ctggtttgtt ttcttgcttg tttgggttgg attggaggtt 120
 tgtatgggat ggccctatgc ctataatgca ttttgaagca atgggacatg ccacattgtc 180
 cccgttctct tgctattgat acctaaacgc gcaccaccca agtggttcggt gaaatgcctc 240
 aatggaatta ggcggtgacc tttgtaagga aacaacccat ggggcatttt ggttcgca 300
 tattttctat ttttcgggac atgcattcat tcccgataaa ggttacagta attgccccac 360
 atataccta agcttaggaa ccagagtgtt atgctataga acacactacg aggtgcatat 420
 tgtgtaaagt taccct 436

<210> 5857
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5857

catgcaagct taccaccttc aggaatccag ctatgattcc aaaattgaat ttgagctcta 60
 tcgctatcg gtccttcata agtttgttgc accttcaccc aactgttaca aatcccttc 120

cacaaattag aacccgccct attagtatca ataatgggta acatgtcatc accacactta 180
tacttcgctc tcatgatttg aacccttagg tcctctctac tcaacataat gcccaaccaa 240
tcttcatcat atacgaagtg ttaaccatcc tagatggatc taggaaagta cacagactgc 300
attgcatagg agggtaacgc ttgaagaaca gacgcaacaa tttatataca tatttataaa 360
gaaaaacaaa aaatctctct ctctacaca tttatcacat cataataatg aagtnaaata 420
cactattgta tgtgtatctc tt 442

<210> 5858
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5858

ttacatatga tcatcttatt atcatcattt attctcctaa ataancacta ctaccctgaa 60
cgcngtganc tcgtgttcan tcctgtctct attgacacac aagctntaca catgggcact 120
aggctcacia tcaactgtgtt ctatacacat agatggacgt gtcgccacag atacttgaga 180
gagggcgagt gaggtatagt cgtatagctt ttctacaatg catatagaac tctatatgac 240
tcatgtctca tgctatcata ccgtgacgtt tgagagacct ctaacatgta ggtcttgaca 300
aactgtcgac ataacatcgg cttcacatac ctctatttca cccatcattc aaggatgata 360
cacaaacggg ctatggtaga gattaacaca ttggagattc tgggagactc tctcccatcc 420
gattatccac acgggaaaat gcttggccct gttattcatc ggtactatat tcaatacact 480
gtaggctctg gtaaccctta ttgtcggcgt acctatgaaa acccttagtt cgcagtacaa 540
caccgacg 548

<210> 5859
<211> 201
<212> DNA
<213> Glycine max

<400> 5859

agcttgtggg agtactgaga ctgcggaag gtttacgttg tgttaccagt ctacacatgc 60
cgacaagagg agggtcaccc tagataggaa ggagagaagc ctggcccatc taccatggcg 120
aggactacaa gtggaatggg tcctcattcg tcaaatacatt gaaagctttg tcagtgcatt 180

acggatgtgc gaggatcaag t

201

<210> 5860

<211> 579

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5860

catctcctat atctcttact ttctatttat atttcataac tcctnaacaa caacatacga 60
catgaatgag tcctgcggaac cctacactac tcaagcctcc gtcttctata tcgacagtat 120
atatcatgtc gtgcgccctta catcaccact atggcatagg caacacgcat acctctggag 180
agcacacacg tggatgaataa ccactcttgc cagggagctc ttgatcatgg atctaatac 240
catatgctgc tactcaacct gtccttgct aatgtctacg cacctcacga ccggaagac 300
tacagacagc acttagctcg agttcactat aacagtaacg cttatgctct ctcaaagagc 360
cgactagtac acctgtctac atgggagaga cagcatagtg atatcagata ttatatatgt 420
cgctaaacat atcagctcac agacagaaag ctgaacacct ggatgagtaa ctgacctgac 480
aattgcacag cctgggctcc ggagcctatg accacacagt ctcatacctc aagtcgagc 540
tcacatgcta ccacatgaca agagatcgac ctcatatgg 579

<210> 5861

<211> 248

<212> DNA

<213> Glycine max

<400> 5861

tatgacgacg ctctgtatgt tcatgtgctg aaattgccta tggaaaactg gttgagatga 60
aggggtcaaac taaccttagg ctagaaaggg agaattgtgt gttagaagtg gaaaaagagt 120
gaattttgag ggctggaagg ccaaattctg gattggtagt attagacgct agagtgagtt 180
aatcttaact tgaaatggca cttagactt atgacgaaag ttatgctgtg ctacagagat 240
aaaaaatg 248

<210> 5862

<211> 567

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5862

actctattga taattactat ctataattca anttttgtac tactactact ctaccataacc 60
actacagcgc ttgaatcggt tctgtaccgt cctatacatg ctcatgctgg aggcataatac 120
atggaagatg ctatgatgcc attcggatat tcttctggag ctctataaaag cggaaagagc 180
gtacgctata tgagaggcac atgtggtacg ctttgtagct tgtgagggct ggagagacgg 240
actgtataga tggccctatg ccttatatcg cctttagaag cacagggaca tgccctcatct 300
ctcccgttca ttcgctattg acatcaaagc tcgcactcat caattgttat gtgaagcgcc 360
tcattggagt agaagcgtga cctttgctgg gaaacactct atgggacgat gccgtctgac 420
acatcttcta tttatcgtga cgtgcatcct ctcccaaaaa gttacaatgt atgaccatat 480
atatctcagg aaccaacctc tattatgtct cgaaccacta catcggcgag tcggtaagtg 540
accttttatg ccgctacaca ttgagcc 567

<210> 5863

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5863

agctngtcac caatgtgagc atcaacaagg acaccagact cactcctgca gctggtggca 60
agggccctcc ctacttcaact atcatcatct ggctggntca ccacaagagg acttccacct 120
ttganaacct caagcttggt tatggcaaat gaaccatcag cttcaaccac ctccctgaag 180
tcttgcaggc ttggtgcata cactggaata gtgaaactgt ctcttttctc actgctaatt 240
aatccctggg attaagaata tgaattagta catgtacctt agacatatca atacataaaa 300
ttaacaatat actggatgct ttaattgggt gaaaaatgct taaaggagac aggaattgac 360
cattctaaac ccaaattgaa aaacagaaaa ctaatgacct cataac 406

<210> 5864

<211> 244

<212> DNA

<213> Glycine max

<400> 5864

tgtctttttt ggctcacgat cttgatacat attgcatgcg atacttgtct tgacacgctg 60
tatataatga tgatatggat ctgcttgagg atgagccgaa gagtttgagt catttttagaa 120
ttgttggtga cagtcctttc accatgtatg aaattcaggt aaagaacgac ttatactgat 180
caacatactg aattgggacc acaagatcct tcaatatgct ttctgactct tttactaaca 240
ctta 244

<210> 5865

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5865

agctctatan acgcggtctt gggagacaaa tgtatagtgt tcgcatatg cgaagatgat 60
gttctgagta ctttggtatt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggtttta 180
aaagctctat agttgggcct aggctttaga gattttcctt tgataaggct ttgtgtcttt 240
tgtttttgaa cttataatac aaggatcttt cttcatctgt tcctgggctc taccattctt 300
cattcatttg catgtttact tctttttctg aaatgacaga tccgatga 348

<210> 5866

<211> 378

<212> DNA

<213> Glycine max

<400> 5866

tctatactat atacaagaat gaagctctga taccatttgt tggacaagtg gcctcagata 60
tcttaagaag gggggggggg gatgaataac cacacttccc acatagctct tcataaagtt 120
actaatcacc ataagcttct attcaacact cctcttgcta atgtttctga cagcacttat 180
aggaaagctc acacattgca catacctcat ctccacata acattctatg tatgcctcta 240
aaattccagg actaagacac ctgcctaaaa cgagattaa cgagacgaat actagatatt 300
atattgcttg cattccatta catcattaca ttcttatata tatgcacatg aatgctgaat 360
tgctactcta attcctct 378

<210> 5867
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5867

agcttggtana gtttagtcaa cttttagaat ttgatttata tttgtattta attatatttt 60
 ggacctattt ttggacttgt aatggtttgc gaccttccat tgctattttt aagtctttta 120
 attattatat tattagacta cgacccttct gtttaactct atgttattct ttctgctgcg 180
 tacaaatgtg aggtgaagtc ccacattgtg tcaaagtata aagggtgagc accatataag 240
 tgaggagaaa acccatatac ctgaggccta tgggtttggg atagagcgtg gtgtcacgtc 300
 accttatgtg gtggctcgtg gtccacaggt gtatcccttg aatctttcca ataatttgta 360
 tcatagtcaa tggg 374

<210> 5868
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 5868

tcgaactgac aatatatatc atctgagcct ctttttacca ctaggatcgt gaattggata 60
 tttctgtgtt acacacacta ggtgaaatga gattctcgtt ccggaattac tcgccttgga 120
 ttctttcctt atctgattgt cccttctctg aatctttcta aactccactc ccctcactac 180
 cagaaagact acaaacagca cgtagcaaga gttatctagt ctctagcact tatgctctct 240
 ccatgatccg aatagtcccc ttatctacat gaacgtttga agagagtgat ataagatatt 300
 attta 305

<210> 5869
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 5869

ggcatattct ctgtaatgtc catctagtta gcgacctgcg ctctagatag atacatgtgt 60

aacactagat agaaatgaga gacttgtgag actcgcttcg ggggtgcagaa tatgtgcata 120
 agatccttct attaccacgc cacttactat ttgtctaact cgcagactat gactccagtg 180
 aagcctcctc tcttagctcc ctacaccaag aactatatct gtgggtgaaac tatttactcc 240
 atgactgatt atatattggg tggagatata tctcaacctg ttacctgtac ct 292

<210> 5870
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5870

agcttgtgag agaaaaacta ttcggcattt acagnaatgt ttgagtagct caagcctatt 60
 ccaactagtc ccattctccc agacaacata acagacattg acatcaaaat ctgattccga 120
 aaatgctcaa gcctattgtc ttactacttc cattgaaatg atatttatgg actttgtag 180
 agtgaattat ngatatgattg tattctgatg aattttggat tacaataaaa taagttagca 240
 tgcgtattat agaaaattta tggacctcta ttatgggtctc aaatgggttca ttctgtgan 300
 agtccatga atgatattat ccaggacttt ctatctgtag tctcttggtg cggattgcag 360
 aaagttatta tcttggtaga tcttaatgtg caaagctagt ttc 403

<210> 5871
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5871

tacggacact atgaatacta agctngacaa catatggact ggaaaatgga tttgaatcct 60
 gtattttgtg gtcacgacg ttgattcata ttgcatgcga taagtttctc gtcacgctgt 120
 atattatgat gatctggatt tgcaagggtg agagccaaag tgtttgaatc attttgaatt 180
 gatggtgaga gtcctttcac catgtttgaa atccagggtca tgaacgagtt atcctgttta 240
 acatatgatt tgggaccaga agattcttca atatgctttt tgactctttt actcccaatt 300
 atcaactgtt gttgaaagtt acgtctcttc ttacctgttg aaaaaagcc agtactgtta 360
 cagctctcaa cacttgaatg gctgtcattc tctcccttg ataacattac attcgcatgc 420

ccatcggata acgattattc cttgcctttg tttattgcc a tatgaattat gctatgacat 480

<210> 5872
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5872

agcttgtttg tccggtgcag cagtaatgat ggctcgagtt attgtggnga gcggnttacg 60
aacccaatg ggtttaggca aagacaacga cggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagcatgggt tacgctataa gccactcag gcggatataa agaggagcgt 180
tgccggaagg aagagcggaa gtcaaggctc gcggttgaga caagaagggtg aaggaaaccc 240
accctgccac ataagtaaga gctntataag cgcgagcctg ggggacgaag gtcaagtcgt 300
cgctatatac gaagatgacg ttccgaatac gctgganttg gtacgaccat gcnctctga 360
tttccaactg ggaaaatggc gagtggagga acgccccgac atttacgcga cgagcataat 420

<210> 5873
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5873

tcaagaaaaa gatggcctca gcanattcct tatttccaga agggaattct atcaatagac 60
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
aggcaataga tctaaatatac tgggaagcca ttgaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360
aggaaatgtg ggacactctt cgattaacac atgaaggaa tacagatggt aaaagatcta 420
ngataaatgc actaactcat gagtatngaa tatttagaat gaatacaaat g 471

<210> 5874
<211> 418
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5874

agctacagac caaagcaact canaatctat gtatctaaaa cccctcaatt tagtggaatt 60
tcaagggtttg agaagtgaaa atgagaatgg tgtaaatttg gagcaaactc tcacctcaca 120
caagtctata accttaatct aaacttgctc aaactgggtn tacgcctaan attccaccaa 180
atcaaaattht gactcctcaa caccctaaatt ttaccctaga aatgggtctt gccttcacta 240
tggtcttttg tttttctcct ttgcacatcc caagctntcc cacagtccta aatgacattht 300
caaactagga ttaactcact ttaacctcca atttctactg aatccagatt tagcctthtca 360
aacgctcaaa gcatcacact tttccactca taactactaca ttctcacttht ctaaccct 418

<210> 5875

<211> 358

<212> DNA

<213> Glycine max

<400> 5875

ttggactcgg atgttctgcc gagtcgatta atcatgctgg acgctagaga ttgtatacag 60
aacctctcac ctaatctaaa tgacaataac ctttctctca caagtgtgat tgtgtcccg 120
aatatatcta gatgctcaag attgtaaaca caagctctga gccaatthca agcgacaata 180
gcttttgact cggatatccg atggagtcatt ttaataattc tagacgctca atattgaata 240
ccgaagctct gagcaaatgc atatgacaat gacttttgac tcatatgtcc gattgagthca 300
tttaataatt tgagaccctc tatagtgaat gcacgagctc tcaccaaatt taaatgac 358

<210> 5876

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5876

agcttangga caggtagtag caggtagtag tattctctaa tttcggtgct taaaattcct 60
gcttttattht attagtttggt ttccttgaat cttattthta tttgcctagt gtcataccct 120
aatttcatcc gtgaaccttc atttgctaac attttgatthc ttgctagccg aatngagct 180

cttaacacca ttataagaaa tgggcaagaa actcatagta agggcaaaaat ggtcgcttgg 240
 gccattata agacttatgg gagatgcaac cagcttgctt gggcgagcaa gttgcttttg 300
 gagtaagtca cgggctctgc tgggcggcaa gctcctccct ctatanttgt acaaataaggc 360
 gtgggaagca gaggggaagg ggttcaacac cttactgagc tattccactg aaa 413

<210> 5877
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5877

atgaatcatt gaatcgctgc atgaccggac cttataatct cagctgcaca gtatggcctc 60
 atgagactac ttctttcccg agggagatac tataaatcaa cctcctagct tgcgaggagt 120
 gtgttaccac gactggaaaa cccgcgtagc aatatttata gaggagagac actaacatat 180
 ttgggcatcc ataaaagatg gagcatatgc tctctctatg ttagaccgac agtgaaatca 240
 tagagtaacc tagagcacac tggactgagg aacaagaaga atnactacta tataatttaa 300
 atgctataca tataattaca aacggcctat gaaaggatga atactttttg gctgaaaaag 360
 aaaagcgcta tgatatggct ataccttcaa tggcogttac gcacacataa gtacaagatc 420
 tggataccac ttaacacgga atacaaccct tggaagagat aatgaacttt catgaatggc 480
 caaggattt 489

<210> 5878
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 5878

agctttctcaa ggaagctacc tagtctataa atagaagaat gtgtaacact tgttgtaact 60
 ttgatgaatg agagtcttgt gagacataac tcaaagttca acttctctct ctttttcttc 120
 cttaaatttc gtgtccccc ctctctcttt ctctccctct ttcttttctt ccattgaagc 180
 atcctctcca agcttcttat ccagactca tctgggtggt gaagctcatt cttccaaggc 240
 ttattcccta gtggatggcg ccgcctctta cctcttctcc tttgtcttcc gctgcatctc 300
 catggtggaa aatcaccatt aaaggacctc attgaagctc aaagatccac cctccataga 360

agctccacaa gccagcttta tcatcctc

388

<210> 5879

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5879

tctggtggga catcttgact tgctntccaa tctgacattc atcacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180
gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240
tgctgccctt cattagaact tcaactcttct catttgctac caagcattct gactttgtga 300
ggtttacatt gaatccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360
ccttcaccac cagtactttg tccagactat gaagttcatc atgaactagc tttcccatc 420
caatgatctn tcctttatag ccatctccaa atgtcacat 459

<210> 5880

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5880

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ctactttaat caattaccag gtgatgtaat cgattacttc tctcttaaaa gtgtgtctga 120
agtgatcaat aacactttat cgattatctc aagaatctaa ttgattacat tgttcttgaa 180
agatggtcag attttgggaa gaatacttta atcgattgaa atgataatat aatcgattac 240
ttctttgaaa taattgatta cattgtatat ttaatcgatt acatgcgatt ataactatctt 300
tctctataaaa tagccacctt gtgttctcac ttcaatgtgg aaaaattaag tgtgaagata 360
tatgagttga agtaacagat aaagagatna gaacaaaagt gcttagatac aatgtgactc 420
acaacttcta atctttgaat atg . 443

<210> 5881
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5881

aagcttgtgc aatctanagc cagtcagttt ccaagatgaa atcntggaaa actggatttc 60
 ttgttacttg aagggtccat ctgaggaca agaacttcag caattttggg gaaaggaaca 120
 taaggaagt ggctcgtggc cgatgccaa acgtttcctt ctaaatcacg acaaactacg 180
 cccatgccaa ttccaatacc gttcttgcaa gcggcatcaa agtttaattt tattaattgc 240
 tgatggtgga caccatctat tctgatgagt cactgttgtg gcggctctaa agcactgtgt 300
 ttcggcaa at aacccaaaag gaacgatcaa taactaagct tatggggggtt ttcttttgct 360
 gaaagataca attattcctt ctgcgcaga ttgaccataa catccanac atctgcttgc 420
 gcaaagccnc ctattcttgc gttctaagca tcataccagc caagtattaa acgatgtgc 479

<210> 5882
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 5882

agcttgtgta cttgaataat agaataaaga atctgaacaa acttattctt aatttttttt 60
 tctcaccctc catttattct ttttacaatt ggaccatagc tcgaaccata gggctcttgc 120
 gaataattga taggaccgct gttgttcaag ggagggcttg ttgctaggac aatattattg 180
 ctatctatat caacattaac aatcaatgat ttcttgga aatatcatgc agactgaaaa 240
 ctaaacagtg ttaataaata aaagaggact ttaattgatc ctcttttaatt cttcattatt 300
 tgtggcacta tgcattggac ctaaataaat atttatatta ctatggccta caagattgta 360
 tacatattcc attg 374

<210> 5883
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5883

actcaagctt atttaacggc cncacacta ttattttcca agtttcttta ttgaaattat 60
gtgttattaa tattaatttt aaaaaatggc ataaaaaata aaataaaaaa ctaattgctc 120
tttaaaatgc tttttttaag ttcttaacta aattatgatg tacattcttg caaaaaaaaa 180
atcctttatt gctacctttt taaaatagtg tggtggagga tacccatgat ttctaacttg 240
agaccaaaaa atttcatgca atgataattg tattaacagt atatttttaa ttatattttg 300
ataatttata taattcttaa agaaaaatta tgaatatata agcttgcatc atttttaa 360
atgaagtata ttaaattaca acccttagtt ttttttaggt cttacaactg ttagtcttta 420
caaagttgta ttttcaggta gtattgagtt caatctttg 459

<210> 5884
<211> 315
<212> DNA
<213> Glycine max

<400> 5884

ttttttattc atttaatctt gtaatgattg cttccttgaa acggaaattc tttattgaac 60
aatattgcta catattggcc tatatctgta aaaccttgct atttccagct atataacaat 120
aatcagtctt tagcggcact cacctatc accggtaaaa gcttctacag cctaaattac 180
gccagttcaa ttttaattgca gctcaactat ttagcagcca tataatatttg ccgctcaccg 240
aaaggtattc ttggtgttgg gatcatcgag tctgctaata tgggtacatc ctagtctttt 300
aacatgcata aaata 315

<210> 5885
<211> 221
<212> DNA
<213> Glycine max

<400> 5885

atcaatccta ttatactttg caaagacaac caagtaagat gagtcattct gcctcgtcaa 60
agtttaatta taagggatgg ccataaaact taaaaaactg gagaacaatc accacatgca 120
ttgcacctca tctgcgtatc tttttcgctc acgagctgca taagaataac ccatgtacta 180
ttgcaatcct tcataagaac tgaagaatcc atggttagcat c 221

<210> 5886
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 5886

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agcttgtaag gcttggatct tcttcatcaa tagagtcatt tgcttcttga agatcaatgg 60
cagtagaatg gagaaggagg aacggtgatt ggagatgccca ctttgttagt catcttatac 120
gactaacttt tgtatagaaa acttttataa aatgtatata ttttcccaa tttatggtta 180
ttttttagg attctaaata aattttgctt tgtttttatac tgtgctcagt agaagccttg 240
tgtatggaat taatgtcaat ttctcttcaa ttccaggcaa aaaggagtta ttttgaagaa 300
gtgctaaagt taatgtctcg ctaagcgagc tcaatgcgct tagcgagtgt catcctctaa 360
ccaagtcatc aat 373
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<210> 5887
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 5887

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tgtcaattga acacatcaat agccttgcac cttttctcac cattttctct ccaaaaatca 60
aaacttgga cctcattctt cccattatg catgagatct tcaaggagga agaggccaca 120
attttcatct tcttocaagc tccatcata tgttttgact ttttctctca aagccttggt 180
aagaagccct taaacctttc ttttcttct aatttctttc tcatttttat gaaaaattct 240
tacttgaggt tccaaattta tttttcatcc tttggaagct tgagacttca acatctaagc 300
tttttttct taaccatttt gtggaagctt cactcaaggt aaggggagtc tttccacttc 360
ttaaacccta accttggtgc ctttggaagc taggcttcat tacatgttgt gatgtttaa 420
atttcatatc tgcggctgga caaccaatg tgattc 456
```

<210> 5888
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5888

agctttgaga aaattgaatt gacaataact ttatacacgg atgtccggtt gagtattgta 60
 atatatcgag acgctccaaa ttgaaaacgg aagctcgtaa gaaattcaaa cgacaataac 120
 tttttactcc gatgtccgat tgaatcgggt aatatatcga gacgctcaaa attgagacta 180
 gaagctctga gcaaattgaa atgacaataa ctttatacac ggatgttcgg ttgagtcccg 240
 taatatatcg agacgtcca aattganaac ggaaactctt agaaaattca aacgacaata 300
 actttttact cggatgcccg acatagtgtc ataatttatac aagagatgct ccatattgaa 360
 tacggaagct cgtatcanat tcaaaccgac aataactctt gactcggatg tatgattg 418

<210> 5889
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5889

ntgggatctc aatttgagcg tctcgatata ttgcgagact caatcagata gtcgtgtata 60
 aagttatcgt cgtttggatt tgctacgagc ttncgttntc aatttgaagc gtctctatat 120
 attacgggac tcaatcgggc atccttgtat aaagatatcg tcgtttgatt ttgctacgag 180
 cttcccgttt caatttgaag tgtctctata tattacggga ctcaatcgga catccctgta 240
 taaagttatc gtcgttgaat ttgctacgag cttccgtttt caatttgaag cgtctctata 300
 tattacggga ctcaatccga catccttcta taaagttatg gttgtttgaa tttgctacga 360
 agcttcattt ccatttcg 378

<210> 5890
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 5890

agcttaacaa acttagaaat caagtgggtca taaattccga aatatagggg gagtaaacgc 60
 acatttttat ctatatacaa ttgtttgttg cttgcttgaa tcttgatttc aggtattgta 120
 ttgtcatcat caaaaagggg gagattgtag atgcaattgc ctttggtggt ttgatgatga 180
 tcatgatgat gaaattgatg cgaatgggct tttcaagatt aaattcaaga caatacttca 240
 agattacaag tcacaacatc aagatgggtca ctagtaaatt aggaagggaa ttcctaattg 300

aattagcaaa aggtttggcc aagtaattta aattaaaaag tgttttcaaa ggtttactct 360
c 361

<210> 5891
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5891

ntntggagta gaaacatggg accaactcat tntatttcat aaaagaagtc gtatccagtc 60
aaggtctgag agaccataca agtttcctaa cgattttctaa ttatgtgggc cattaagtct 120
atcatatgct gacaatagcc gagaagccca tgaatctctt cgggggtgga gtaggcgtct 180
gccatcgct tggccttggc taacaagcgg ggaagttctt gactcccggt caaggtaaga 240
gcaaaccggt ccatccacat ggttgctctt tgggtgtaaag agtcgatcac ccttcctcta 300
gcctcttttt cgcgatatac ttgagcatac tcatccgcga ttctatgctc gt 352

<210> 5892
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5892

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gttgagccat gttctcagta tgaaaattag tagttgaatg ctcaaaatca gaatatttag 120
aatcaccagc aacataatgc tcaaaaatgc atagaacgat caggatgcac accattccta 180
actaatctat gaaaggttct atctatttca ggatcaaagg gttgtaaate acctggattt 240
cccctagtca tgactatat gccgcanata atgtgttctt aaataagcac cagcggaggg 300
ttaaaactac aactatagtc aaatgatatc caaatgagct gaaattttgt gaacaacacc 360
ctaanatcat gnaaagatag cacaaaaaat ttcaaacana aaataanatt ctaactatga 420
aaactactta 430

<210> 5893
<211> 394

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5893

ccttggatct tcttcatcaa tggactcctt tngcttttga agatcaatgg cagcaaattg 60
gagaaggagg aaaggtgatt ggagatgcca cttcaaggag aagatgagtc gagaacaagt 120
ttatcaccat atgaagccat agataagagc ttgaagattg gagaagggtga gtggacggag 180
atggagagaa ggggcaaaac atttatgcca aatgaggtct gaactttgaa gtgtaatttc 240
tcaaattgatc aaagttgaaa aaatacacac ataaggcctc tatttataac ctaagtatca 300
cacaaaattg gagggcaatt tgactttcta ttcaaantc acttgaattt gtggaacca 360
aattggagcc aaaatttcac taattatgat tagt 394

<210> 5894
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5894

agcttcaaga aaaagatggc ctcagcaaat tccttatttc cagaaggga ttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac tatagaaaaa 240
cctanagata gatggtctga agaggataga aaacgagtag aatacaactt ataagccaaa 300
aacataataa catctgccct gggaatggat g 331

<210> 5895
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5895

tctttggacc ttgaacaagc aattaactcc tctntcagaa ccatgctatg tgctcgcgac 60
tggtctcttt cttcccttcg caacttgagt tcaactattgc taccocatag agctccgcga 120

aatttggtcc ggccatactc ttccttgcca gccctcttgg tctcttggtc aaaggctctt 180
 ggggtaattg cattctcttc ccgtaaccgg gcacactcct tccgaacgtg tgtagcggcc 240
 aacttgaact tctccttggc aagttttgcc tttcctaact cgcttttgag agcttggact 300
 tcttcgtcct ctccgggtgc ttcaaaactc tcttcgtga cgacttttaa cttggcgagc 360
 caatctaaac ctcgatatg gactttc 387

<210> 5896
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 5896

gctttctcgg ggccattttc tgccaaggca aacatttgga aagttagttt taccaagaaa 60
 tgctactctt aaaacaaaaa tggcatacaa cctcctccaa taaacacaaa catcaatgta 120
 aatttagagc aaactcatgc acatacttcc ttatgaacat tcactcgcac aagatattct 180
 tctacccaaa aaaatgcacc catgcgcaat caaggaacct tcggttaccta gattatttat 240
 atgtacttcc aagggtgtatt tgctacctac atcacatgca tttccttggc taaatttaca 300
 tacatgcata ctcaaagcat cttggctacc aaaaattgca cacgtgcaca ttctagtatt 360
 tctaatacct atgcatatac aaactttgtg atgaatcttg gctatctaca caataaagtg 420
 ctacatttca t 431

<210> 5897
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5897

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 tggcatcatt tctggcgcta aactgctgag agttggaagc catcttctca attaaatttc 120
 tggcttcagc aggagtcatg ttccaaggg ctcaccact gccagcatct atcatacttc 180
 tctccatatt actgagttct tcataaaaat attggagaag aagctgctcc gaaatctgat 240
 ggtgagggca actggcacac agttttttta atcgctccca gtactcatat angtctcttc 300
 cactgagttg tctaatacct g 321

<210> 5898
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5898

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 aactgcttca tatgctaata taactaggaa tgtggtgggt agattcataa aaaatgagat 120
 aatttgcata tatggggtgc ccagcaaaat catcgctaac aatgccatca acctaaataa 180
 cacgatgatg aaggagtgtg gtgaggattt taagattcaa caccataatt cgacacctta 240
 ccaacccaag attatcaatg tagttgaggc caccaataag aatatcaaga agatcattca 300
 aaagatgata gtgatgtaca aggactatca taagatgttg tcgttctcat tgcattgnta 360
 tcaaacttct gtgtgcactt ttactggggc aaacccaatt tcgttggtgt atgggatgga 420
 agctctccac cctttc 436

<210> 5899
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5899

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 acttacacta agaattgttt tactttgtat ttgaaattg catatagtta tgagtgagga 120
 ctatgtgtgc cccacactct gtttcttaca ttctagaatt gttagctttg catcattgtg 180
 ttggctatcg attttatcgt gcaaagagtc gaggccaatc atgagattca gaaggaaacc 240
 atatagaaat gtaagattta ttttacattt gtatcaatat gcagttatct gtgcaaattn 300
 tgggtgcatt gaaatgaggt tgtgattgcc aattgtatca accacaatta acccatgtca 360
 aatggcaatg gttgtaacac aactgccacc acaatctata accttggcta tataagagac 420
 ttgtaaataga catgaaagta tttagtagtg tggagta 457

<210> 5900
 <211> 378

<212> DNA
 <213> Glycine max
 <400> 5900
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 tgcgaatatg acctaccgag gaatattcca ccgaggcctt atagtctata tctatatttg 120
 taccttttct ctgaactcac aatgtgttct tttcactac tccattacca gacataagga 180
 attggaacaa aacagcacat gtgcacttta cttttctgcg atacgccaag ctttgacaga 240
 ctatacacat gaagttatcg tatgacagag agtgatattg atatgaacaa gactacatgc 300
 ttactaacta gagacacctg aacgctcata ttttatagag cattctctat ctagttgcgg 360
 gcgatattac ttttaacat 378

<210> 5901
 <211> 294
 <212> DNA
 <213> Glycine max
 <400> 5901
 gtgcaccaca gagacataac aggctctgta ttagcactaa aaggatcaat tcaaaatgct 60
 tacataactt caaaagtata tcatattgct agcccatagt aggcacatcg atattccact 120
 tggatcatat gtatctagga ctcttcttga tcaactcttg tttgaacaac gatgtgctga 180
 tcaataattc aaacatcttt ttgctttcg tagatcttac cttgatgtta tgccccttag 240
 ccaaatcgag ttctctctat accaagccct taatttctgc ctagcatgct atga 294

<210> 5902
 <211> 214
 <212> DNA
 <213> Glycine max
 <400> 5902
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 ttagaaaagaa tgttcacaca caagttgctt gaataatcgt gacttttggt aaagtatctt 120
 tcgaaatcac tcaactggtta tcgattacca ttaaagtgtt atcgattact cattaacaga 180
 tgtgactctt cactttgaat cttgaaaacc ttaa 214

<210> 5903
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5903

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tccttcctaaa gaaataggan aagggttgctc cactaaaatt ttatgttttg gaaggagag 60
atggatggaa aaaagggttc aagcaactc tacagtactt ttgctacagg aagttagaag 120
gtgagatttg gaagagctta tttgaactag tcaaatggc ttatgacatt cgtataagat 180
atttttattc aataagggttc acaactaagc ttatggataa gctntcatgt tatcagttta 240
ttgaataagt gcttaattaa gatgttttgt cagttgagcc cttaaagact aattacaggt 300
cattcacgtg gagctcacia actggagggc tgagttgaat tgagacagat gaaataacag 360
gaaaaatata tttgttcaat acttaaggaa acaagtttac anaggcttat cagctaaaat 420
atatgttcaa gagttaagat gga 443
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<210> 5904
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5904

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agcttattcg aagccccttg aattgattgt ctgttcatgc atcctcaacc attgagttcg 60
gagcccatg aattgattgc ctagegctgt tcgtgcatcc tccatcatca aatcttattc 120
ggaacctgat gagttgattg ccattcatgc atcctccacc attgagtcg gagccttacg 180
aattgactgc caagctctgt ttataaatca tctatcatca aatcttattc gaagcccat 240
gaattgattg ccattcatgc atcctccacc attgagtcg gagcgcccg aattgactgc 300
ctagegctgt tcgtgcatcc tccagcatct tattcggagc ccaggaatt gattgtcggt 360
tatgcacct acaccattga gtccagagcc nncacaattg attgcctagc tatattcggt 420
catcccat catcaaattc ta 442
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<210> 5905
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5905

ntgcagaatt ggtcttggcc agtgaaagga tcaatgtggg ttcgaaaaga ggcttatttg 60
atcatcctac tangacgact gagaaaactg gggcaaataa agaggggtgag gatgaggag 120
aaacccatgc tgtgactgcc attcctgtac ggccaagttt cccaccaacc caacaatata 180
tttactcagc caataacaaa ctttctcctt acccaccacc cagttatcca caaaggtcat 240
ccctaaatct accacaaagt ctgtctacca cacttccaat gacgaacacc accttttagca 300
caaaccataa acaccaacca agaagtgaat tttgcagcga gaaagcctgt agaattcacc 360
ccaattccag tgtcctatgc tgacttgctc ccatatctac ttgataattc aatggtagcc 420
ataaccctag ccaaggttca tcaaccttca tttcttggag aata 464

<210> 5906
<211> 445
<212> DNA
<213> Glycine max

<400> 5906

agcttgcaca caagattctc cttggctggc acttcaaaac cttctgggtg ggtcttatag 60
atgtcttcct ctaaattccc atgcaagaat gcagttttta catctagctg ctccaagtaa 120
agattctctg cagcaacaat actcaaaata actctgatgg tagtcatctt tacaactgga 180
aaggagtctc tgtgatatca attccctgtt tctactgaaa ccctttcacc acaagtctcg 240
ccttgatatc tcttctaccg tcagattctt ccttttagcct acagaccac ctattttgta 300
acgctttctt tcttctggc aatttagtta aagaccacgt cttattcttc tgaagggatg 360
tcattctatc tttcatcgct agcttccact caatagtgtc attccctgc atagcctcac 420
tgaaacattc tggctcacca acatc 445

<210> 5907
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5907

gcatggaaga gttagtcttn ctacttttat ttgntgacca tatagttgta cctggagata 60

tataagtaat tttactctaa ttaaaaataa ataaattctc tgtagatatt taacataatt 360
 gtatacatcc aagactcaaa ttcaagatga ttgggntac tcacataata ataataataa 420
 gaagaatagt gataataata atattgata 449

<210> 5910
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5910

agctgtgacc attngactta tatgctccat cttgaggggg aatgttgga ttacacacat 60
 tgtatgggta cttgttcac acattgcatg ggtacttgtt ccaataaaga atagtttttt 120
 tttatcagta aaactaaata tattatatat ataaatgac aaaagtagga gaggtactag 180
 tacataggga tatacatcct catatctaga caccaaaact gaggtattct agatattagg 240
 agaacatgtg ttttgttcta attgtaacac ccattacata agaaaacctt ggctaataatt 300
 gcttgaccat tgggttagat ggggtgagaa atgtttctca naatgtctaa gccaaagcca 360
 ggtcaagaaa acagcttcat caaacaatct gttagcatca aat 403

<210> 5911
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5911

tccagatata gcatacatag ttaggggtatt atgcagatat ttaagcaatc caagaatgga 60
 tcattggaaa gaaacaaaa gagttatgag gtatttgaag agaacaaagt attatatgct 120
 cacatacaaa aggtcaggtc agttggagat cactgggtat tctgacttag attntgcaga 180
 atacctagat agtttgagat ccacttcagg ttacattttc atgttagtcg gtggtgcggt 240
 ttcttggcgc agtgccaggc aaacccttac tacttcatcc actatggcga caaaatatgt 300
 ggcatgctat gaggcacaa atcatggaat atgattgaga aattttgtca cagggtntca 360
 aattgtggaa tgaattgaaa gaccacttaa gttatattgc gacaat 406

<210> 5912
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5912

agcttaactn tggagcttac tgaacaagt taaaacgagt ttatttgtat aaggttcttc 60
 atgaatatta ttttaataag ctaaagaaaa cttccaataa ctaagaaggc cactagtcac 120
 ttacataaat ccatataagc tcttcatgaa tattatttta ataagctaaa gaaaacttac 180
 aataactaag aaggtcacta gtcatttcca taaatccata taagctcgta caaatgctcc 240
 cttgaagata aatttgagga acttgccctgt ttcttctttt gtgtgattat agtctttatc 300
 tttgaacttt tgtctgaact atataggta tctgcaactc atatatgata tggaacccta 360
 tttcagaaaa ggatgagaga ctctgcacct accgggcacg aacttga 407

<210> 5913
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5913

tatacattca atggcatgga tagccatgct aaggagctta tagagcttct tccaatagtg 60
 aataggtctt cattgaaaag ggataagcct aacttctgat aaaaaaatct actaatatgt 120
 ttgcttccaa ttttttgggt gtcaataata tgtttatttg tgcattgcttg tagttaccta 180
 ctactttgga gcagggttgt tctaaaaaag ttcattctttt agaagggaat aaatattagc 240
 aacacattat ttttaatatata tatatatata tatatatata tatatatata tagagagaga 300
 gagagagaga gagagaagag atcanattga attgatgtaa ctttgataac ttgtacacca 360
 ttctataact tcaatngaag aatgttntct taaaactcat ttgtggatag aaagttcctt 420
 tcacatagat aacata 436

<210> 5914
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 5914

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ctctctctct cttctctcct ctctctcctc tttcgnnttg agtttgaggc ttctcttctt 120
cttttagaca ctttttcggt ttgcaattcc agttgttact tttcatttta gcaataaaat 180
ttcgttctct attgattaat ggaaggctaa gtctccagcg ttgttttctc ttgaggatca 240
agcacagttc tctttgagtt tctattatta ctattaaatt ttgttcactt tttcctcttc 300
actaattact ctaaaattgc tgctattaat tcatgcatgc ttagtgcttg attaattgtc 360
tctgcgctta atttacattc atgcttaatg atcgnatcatg attaattg 408

<210> 5915

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5915

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tccgcaagac ttacggaaag atcttagaat tgaccttagc agaggatatcc atagaagcca 120
ttgcatcact caccaatac tacgaccagc ctttgagatg cttcacattc agagacttcc 180
aattagtacc aaccattgaa gaatttgagg aaattctagg atgtcctctc gggggaagaa 240
aaccatatct ttcattccggg tgtctccctc ctntgagcag aattgcaact gtggtcaagg 300
attcagcaag aggtttggac agcataaaac agactcggaa cgacatggcg ggcataccac 360
ggaggtacct agaagacaag gcgagaggta tggccgatc 399

<210> 5916

<211> 383

<212> DNA

<213> Glycine max

<400> 5916

agcttggttg tgagagcaat gtcaagaatg tcaccaactt cagccctaata agttgggcct 60
ggaaactgac cggttgattcc catcagaacg tgttccaagc aatctgggtt tctgatcatg 120
tactccacat caaacttgta ggtctcact attcctccga ttgacaattc taccaaacc 180
aaccatatta tgcacccaac aaaaagagct ttcaagctca ttcttaatta attttgatca 240

gagaaagcct aattagcaat ataacaggaa ggtatcaagt agtaaaacga agctattgat 300
gaacaaattg aaagaatatg tatagaggat cgaggatttg gattgggtgg accattgcct 360
tatatatata agagagagag aga 383

<210> 5917
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5917

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taggttatct tggatgtgtt tgacattctc atcttatggt ccttttgtaa ccatatcgct 120
tgaatgtctc tcattcattag cctgcagatg atatagagga ggtaccagat ttactcttc 180
catgcagctg tgatgaagag atgttggaga aaaattcagt gaaatgagta atgtgataaa 240
ttattntggg gaaccaaagg agtttttgtt ttgcagaata tcaaaagaat acaagtgtg 300
ttaacactaa cccaagttcc cagatcttga aatggagata atcatcaatc tgttgcataa 360
atatgtgcta atntagtgt aatattngtg tcaacattac tttgttgagt ttttta 416

<210> 5918
<211> 293
<212> DNA
<213> Glycine max
<400> 5918

agcttgtaat gaatatgaac atattcttat gatcacttat ttctgggcag atttcactca 60
ttgctcaatc caactccttg cggcttgtat ttccaacctt gattactgcc ttgtgcaagg 120
cccgaggagt cacctcagat tctcttacct tcgagtcact cagcctagcc attaatttgg 180
cctatattaa gaagaattgt tggaacctgt atgacccttc tgtcactttt ccaaggaccc 240
aaaaatccag agctagaaaa tctgaagacc catctctctc tgtcccccta ctt 293

<210> 5919
<211> 366
<212> DNA
<213> Glycine max

<400> 5919

tggacttctt catcctgttt cggagctttg aagttctctt cattgataat atttaacttg 60
gagagccaat ctaaacctcg aggacgaact ttcggccatt catgataacc accaatgatg 120
ccattacgaa tgcccctaag atctttatct attctccgtt ggatggccca agagagggga 180
ttaagatgga acccacgcat gatgcatatg cgaaaggtag aatacaggga tgtacatagt 240
acgacaatat tcacacacaa atataagcaa aagggtacat gacactttta tgcattggcac 300
gggaaaaatg gcatgcatcg tgtatgctcc gtgcccctta tttaagggaac ctatatggga 360
gagagc 366

<210> 5920

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5920

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tgcattctgg atacaacaca ctgcaaagcc ctccggaagt tgttctgggc tgagaagtta 120
atatgggcat attgtcctgc aaccatgct gcctgttttt cacaggaaaa ttaaagtgtta 180
gtctaaataa taattccatc gcatggttat attgtatattt agaaggagac tggaataata 240
ataaaaaaat tgcagcatgc agatctttga tctctctggg tttctccctc tctatcctcc 300
ctgttatgtt cttccctctt tttactttct gtctatcagt tctctctctt cccacctana 360
tcctatatca catg 374

<210> 5921

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5921

tgcagatgct ctanggagaa ttgctgataa attgtagagc atggaggatc cgaatagaat 60
agtgtacata acaatttgga gtcaacaata gtgattccca taatttatct caggatagtt 120
cttagaagat gaacatcata ctagttaccc tttttttttt aatcttctgt ctgcattttg 180

ccactttttt gtggtttact actgcactaa ggcattttat acacaaattt ggaggttact 240
gcattttatt tattttcttc tttcagtgag gttatatgaa tctttcctcg gtcaataata 300
gcggttgtag agataaagtt actattacta attaaggtac atttttatta gaggtatctc 360
tttgcgggct catgcaatna tttgcttctc ttgtataagt catctctcca cacatatata 420
atattttttg ttgagttaac cttactatt 449

<210> 5922
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5922

agcttgcttc ttttggtgca tagaatgcat gcaaaaaaaaa aatagtaagt gtcatgaatc 60
tctgacataa gcttcaacca attaacattg tttgtatgac aactggttga gttggacagc 120
aatcacacag tttgtccacc atggtagctt ttatgttctt attgggtata gtttttagtat 180
gctttatggt cctattgggt atagctttgg tgctggaatg ttcaatttgg agtccacaaa 240
aggaggaact ccatatggtg ttggagttnt tgctggagat ggtacaagac aagcaagtga 300
aatggagctg gagcttgac agtatcatgg caagtatata tgaaa 345

<210> 5923
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5923

cagcttgtag ggggctgana gatatgtaaa atgctaaaac taaactttnt agttggatct 60
atacaattca cccaacgggt gttaaagagtc cagggggctg aaagacgatg attatataat 120
gcagaatttt gagaatattg ttgtatgatt gtgctaattc taattgtatt gagaatattg 180
ctacatgatt ttgctgatct taattgattc tttttgtggt aattctgatt gtatgtatta 240
attcttattg ttttttaatt ctattttgta tcttgatctc ttgattattg ggatcactta 300
tttttaggat agatagttgt atcatatatg tcaggaaaag ctataggaga aatcttaggt 360
agggtgggtg atgaccttgt atatatatct atcgattggt tctaatacag gcagaacaac 420

acattctatt tattgtattc

440

<210> 5924
<211> 351
<212> DNA
<213> Glycine max

<400> 5924

agcttggaga ggatgcttca atggaggaat ttatagaggg atagaaagag agagggggag 60
catgaaattg aatgaagaaa aaggagaga agttgaactt tgagttgtgt ctcacaagac 120
tctcattcat caaagttaca acaagtgttg cacatgcttc tatttataga ctaggtagct 180
tccttgagaa gctttcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg 240
agaagctaga gcttatgtac acacaccct ctcataacta agttcacctc cttgagaagt 300
ttccctaaga agattcttat agaagttaga gcctaactac tcatacctct c 351

<210> 5925
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5925

tgtaagatta tggggtaccc atcacatgtg gtactaagtg tgagtcaggc gattgtgcac 60
aacaagtntt ccacatacac aatgcgcgca taaaccacc atccctgtt gccacctac 120
aacttagctc acgtactccc acgtagccca tatcctcggt actetcaaca gcgggtcccc 180
atcaatactg ccaagctttc acagcatcca agcagaacag cattcaaaca gcacaagcta 240
tcgcagccaa gcgaaacaga gcatacgag aaaactctgc tcaacagatc aaccataatc 300
acagtttttc tactttaag accacagtag caattgcttc gatccaattc gttaaccgct 360
ggatcgacga caaaattata ctggaagtct atagtgcata aggctacatt gtgaccgttg 420
tgatctatta gcaacctcca aaactcatg 449

<210> 5926
<211> 389
<212> DNA
<213> Glycine max

<400> 5926

agcttagaaa tagaaagtac ttttcagttt tccaatgagt tgaaaagaca tttttgccga 60
gttgttacgc aattctattc attttttgtg tgttttaaagc acttaacact tgatgacatg 120
gtatagcaga cttggtcact tggattaatg cgттаатгag tacaattttt gggaaattta 180
gcatacgctt attgttgagt gtagtatgat gcaatctgga tttcttagta acaattggct 240
actcaggcct ttgtatgaca atgaaagata agaaccttag tagttaatgg ctgggtcttgt 300
gcgttctgat ttgcaattta tgcccgatca gtgatccttc acatcacaaa atgtggcttc 360
tatttcctca tattaccctt gttcatact 389

<210> 5927
<211> 424
<212> DNA
<213> Glycine max

<400> 5927

gctcgaagac aagactatac gaggtatctt ccttgggtat aacaatatct ctaagggcta 60
ccgtgtctac aacttgcaaa ctaagaaact cgtcatcagt cgagatgttg aagttgatga 120
gtatgcttct tgggaattggg atgaagaaaa agtgaagaag aacgttctta taccgcctca 180
actacctcaa gaagaagctg aggaagaaga cccagggtgaa ccaccttcac ctgcaccata 240
acaacaagat caaaaactat catcaccaga gtctactcca agactagtaa gatctttggg 300
ggacatatat gagatcagta acttggccat acttgaactt ggaagctttg aagaagcgtc 360
gaagcatgaa gtatgggtca cggcaatgga agaagagata cagatgatcg atacaacaac 420
acat 424

<210> 5928
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5928

agctntgccca aaatagctta catcagctnt gaaaaatcaa tttttgaaga ggataagtca 60
taagtgactg gctaatacgc ttacacagata tacatgtata tataacaagt agtaacaatg 120
tgctttacct ggactttata taatgaaaca acttccacaa caacaccaat ggacaaacca 180

agttcaacta caacaaacta attcagcttc acctggagtt gatataatga gtaatggctt 240
 tagaagaact caaagccaaa ccaagttcaa gtacaacaaa ttaattaatc tttttctcaa 300
 ccaaagtatg tcaaactact tgttggatat taaaagtgtt agttattcat gtgacaggca 360
 aagagagttg taagacaata attcttgggtt aaaactgtca atgaagtatt gcggcattaa 420
 tttgatacaa actgatcaag aacaatga 448

<210> 5929
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5929

gttgcgcgta ctgatgggta ccatgaggtg tttgctgggt tttgaccac gcgggtgttg 60
 aagagacggc atgggcatct cctccttcc tttntgceca tgttgccccg attcttttgg 120
 cattcgcgtt tgtggaggaa acataatcaa actttcctct tttcaatcct acctcgattc 180
 tttcctcgac aaacaccaga tccgcaaagc tggacggcat gtaacctact agcttctcat 240
 agtagaacac tggcagagtg tctaccatca tggatgatcat ctctctctca accatgggag 300
 gagccacttg tgccgcaaaa tccctccatc gctgcgcata ttcttttaaag gtttcaccct 360
 ctttcttgaa catattctgc agttgagtag ggtcaggagc catatcagaa ttgtactgat 420
 actgcctt 428

<210> 5930
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5930

agctttctag cttttcattg gtgtattttg atctcctttn tgtgctctaa attgtgggag 60
 tgtgctcaaa tatatggggc aattttgatt tgttttcttg cttgattaag ttgaattggg 120
 ggtttgtatg agatggccct aggcctataa tgcattttga aacaatagga catgccacat 180
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
 cctcaatggc attagcgtgt gacttttgta aggagacaac ccatggggta ttttggtttg 300

tgcatatddd ctattdtdtdt ggaatatgta ttcattcccg aaaaaggcta gagtaattgc 360
 cccacatata tcctagtcct agaaactgaa at 392

<210> 5931
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5931

tgttgacac gcgagatta cgtcatcttc cacgctcaca ttatctgtca tactcaaatt 60
 tgagtcacgc tgacgggagg aaatacccg gtggttatcc gtataaacat tcttdtdtdt 120
 tgtctgtaag acgaanagcc tgatagcaag cagagactaa cgtcgttdtc tgcgcccttc 180
 gtcaatcgcg gccgacaagt cccgttgaca cgcggagatt tacgtcatct tccgcgcaca 240
 caagatctgt catactgaca tttgagtcac gttgacgggc ggaaataccc aagtgggttat 300
 ccgtataaac ttdtdtdtdt gctgtctgta agacgaanag cctgatagca cgcagagact 360
 aacgtcgtct tctgtgccct tcgacaatcg cggccgacaa gccattgac acgcggagat 420
 tacgtcaact tccgcgctca caagatttgc atactgacat tngagtcacg ttgac 475

<210> 5932
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5932

agcttgctag tcatcttdtdt aactcttgct ctanagcag gttatatggt ttgactagcc 60
 aagggataga caatttgatc aaaggactca gatgttdtdc atccgacgga tcggagtttg 120
 agtatttdtdt tgagttgatg ataataattg ggagttgaac tagattagcg accttdtdtdt 180
 gcatgaggag gtggtttagt gaaatcaatc tcaactcttdt tctcttaga tatactactt 240
 ctttatatcg cactccatgt gttcgtaaaa ctgccaanaa tagctgggta attatactcg 300
 tgggtattt 308

<210> 5933
 <211> 411
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5933

tgaagaaggc tgagcaaacg ggtaggcata taaaaggaag cacgagaact gcatataaaa 60
ggaagaaagc gtcctcgtg atggcgcggtt gaacctgcaa acgcaagtcg taggctccaa 120
tggcatttcc ctgcttcctg cagctgcagc agtctgctgc agcactgtgc accctgtcac 180
ctgcatagct aaaacgccag ttgactggc gtttctggcc tccatgcaca acgcgccagt 240
ggatgttgca cgtcccactc cacgtaagta gaaggcgaag ccgctgctgc tactagcacg 300
tccctctcca cgtggcagct ccttcacgga agcgccagtg gtggtggcgc catgcatggc 360
gttcacgtac caaaagagca cncgctgaga ataaagtttg gaagaacccc a 411

<210> 5934

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5934

agcttttgtt cctttntata aaaagagaag ttctgaaact catcacgttg tctaaaaagg 60
ccttgaggty gatctaagta ctctgatcat tcattagcat attcatgatt tgggtggcatg 120
ctcaccaata tttgtttctt tagggaactc accataacta aaaaaacgca aaggcacccc 180
tataacaccc gatccaaaag taagatggat aacgaagagg gagtgcaaga acagatgaag 240
gctaacatat cggccttaaa agatcagatg gcttctatca cggaagccat gctannaaat 300
caaaaatcaa taaaagacaa tgata 325

<210> 5935

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5935

tcaatagcat agcctcgtaa gaggacatcc aaagntgtca tattgagatg attctctctg 60
tgaagtttgt cagaaagga aacaagtaaa aagttctttt aaagaaaata aatgttattt 120
ccacttcgag gccattaaag cttctacacc ttgacttgct tgaaccaacc aggattgcat 180

ccctttttgg atgcaaatat ggtctggtca taatggaata ttacactaga tggacttggg 240
 ttaggttcct aaccacaag aatgagtcct ttgatacctt ntataaatnt tgtaaaaaga 300
 ttcaaaataa aaaaggcatt ngatatctctn taatcataag tgatcacagg gaagagtttg 360
 aaaatgatat ntttgaatga aaagaatggt attcaccata tattttccac tganagaata 420
 ccaaactaga atggagtta 439

<210> 5936
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5936

taacagactc aggaatgtca naggttgatg caatntcacc tctcagttac caaagccaga 60
 cgctcaatac catcaaaatc agcatgttca atagccaata ttcccgcac agctaagagc 120
 tcctctggaa aattgcaa atcaactgtctg ttaacaaaac agctgatacc atgacctatt 180
 atcttctgca ccttttctct cattatctct ttctctgctg tttcaatttg agcaactcta 240
 gccatagaat caacacgaac acgtgcacca tatatcttca ctttgtctgt gtccatggca 300
 atgtttgcc aacagtatctt tgcattctct a 331

<210> 5937
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5937

agctntgagc aaattcaaac gacattaact ttttactcgg atgtctgatt cagtcccgt 60
 atatatcgag acgcttgaat ttgaatgccg aagctctgag caaattcaaa cgacaataac 120
 tttttagtcg gatgtctgat cgagctccgt actatatcga gacgctcgaa atggaatacc 180
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagacctg 240
 taatatatcg agacgctcga aatggaattc tgaagctctg agcaaattca aacgacaata 300
 acatttacct cagatgtttg attgagctct gaatatat 338

<210> 5938
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5938

tgcatttggga attgcgaaag cccactcca tcattaggat tattacctga catctcanac 60
 aaacaaatca aacgtaacaa gacaattata gctgctgttt gaataacctca cccactcaag 120
 tgtatcacac aattatggct cttctctaata gaaacactct tgcctttttac cactctaatt 180
 ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240
 atgtgtaagg taaggctaga gagacaagga aaagggttaac caagaaaagg ctaacaatgt 300
 ttttaggcac acatgaagga aataaaattc agaattaaga attcaagaac aatccttcat 360
 caaccaatat attaccttaa agagattctt ttaaagtctt caacatgacc attcagc 417

<210> 5939
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5939

agctcttgcg tgcaaactta tcgttcacgt tcctctcatt ggaattgaat gaaacccccac 60
 acattaacaa agtcactttc aaaaagacac tttcgttggt cccccctcac tttttttcca 120
 tacatgaaga aaatgaacgg tttataatag attgggcatg gaagttgaca ggtgaaatcc 180
 caaaccccaa ttctcactat acccctttnt ttttctttta ttctccaaac attacacaag 240
 gagttactac caaattatta ttttcagtac tgagagttgg aggggtctatt ttctgtccat 300
 taataacctgt ctcatangcc ataccacttc catattttgc aacattntct cctcacttgt 360
 tgcataacac caaagaacta catatagttg tcattgcaca ggtacaacaa cctaactagc 420
 tagctagcta gacacacacc c 441

<210> 5940
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 5940

ctgtgtatca ttatgggttt agagggccac aaaaagccac caatgaagga agaaatagat 60
actttgattc gaagcatatt tatttattga agataatccg gacaaaacct ttgcactttt 120
cctcaccttt ttaaattaat tactattaga attactatct tttattatct aatattatac 180
gagattacga gcttataatt actattggct caaactattg tcaagttatt tttttaatcc 240
acatttgata ttatcttata tatatggntc aactcttaaa aaanaaattg tgtgtactca 300
actcttgcat atagagattt agtatttcac agggaacaan aattctatat taatatagaa 360
atatataaca gaaataaaat atccaaatgt ataaagtagc aatttaatca aatattatca 420
tttcacaaag at 432

<210> 5941

<211> 285

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5941

agctntagct ttgtcccaa ggcttcatgt atactgggcc aaaatcgcca agtgaacctc 60
ggatccctgt cagatacaat actagaagga attccatgca accttattac ttccttgatg 120
tacaactcca ctagcttctc cattctatac ttcataattca ctgggataaa atgagcagat 180
ttggtgagtc gatctactat aaccacaca gcatcatgtc cagcactagt cttgggttaa 240
ctagatacaa aatccataga tatgctctcc catttccatt ctgga 285

<210> 5942

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5942

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggcg cctcctctca cctcttctcc ttgttttcc gctgcatctc catgggtgtaa 120
aatcaccatt aaaggacctc attgaagctc aaagatctag cctccatgga agctccagaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240

tccattaatt nttttgcttt accttttctt ccattgttgt ttcttcattt tttttcttcat 300
 gcatctctctc acatgtcttg tgccaaattt tgtaacatg attctctaga gtttcccacc 360
 gataaacttg ctatagaagc tagaattgat tttctat 397

<210> 5943
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5943

tcaacacann atgcgacccc ggaaccagc tgcaaccctt gtaaccagcc acgacacccc 60
 acaccacgc gtgaccgct gcacataaca accagcagcg acgaccacg gcgtgaacgg 120
 cggcgacgag cacggcgtga acgacggcga cgaccacac gcagaacatc gcgatccaac 180
 tctgttgggc atcttgaagc tttatTTTTT tttgggttg tttttgctgt ttgacacccc 240
 ttttttctgt ctgtaacttt ttttcccttt ttctatttga caccctcttt ttactttcga 300
 caattccatt tttatTTTTT ttttctatTT gacaccacaa ttttttttgt tcagtctctt 360
 tttaaatggc tgaaccatca tccgatgct 389

<210> 5944
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5944

agcttctatt ttactgtctc cgtgtgaggg tcgtttctct ttctgtggac attatttcac 60
 aaatttcaat ggtggagatg tgcaaaaatg gggtccaaag gtggtatcga aatttcacga 120
 caatccaaca gttgacgagt ctgaaatcgt agttttacga agacaggttt tgggtctctg 180
 tggaaaaaga gaaagctacg atacgaatga catttctctc acctcagata atatttcgca 240
 nattccaaca atgagaatgt tcgaaaatga gttctgaaag gtgctcaaatt ttcatgatga 300
 tccaacgggt aacgagttcg ggatcggtat tttactgaga cagggttgag tgtatgtggg 360
 acaaagagag gatTTTtaaga gaagaagaag ggataacatt attgagagga agaggaagcg 420
 taaagatgta ttgtcagtct gaaaactaac ct 452

<210> 5945
 <211> 220
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5945

actaagcttt aaataagggc ccaaactg aanagtcgtc catgaatata tcttaataca 60
 tttctccacc atgtctgaca aaatggccag catgcacctc tgaaatgcgg ctggtgcatt 120
 acataacca aatggcatct gtctataggc aaagacacca aaagggcatg taaaggccat 180
 cttctcccga tccttggggt ccaccgagat ctggttataa 220

<210> 5946
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 5946

agcttctcga tatattatgc gcctcaatcg taccttcgtg tgttaagtta tgaccatttg 60
 agttctggcg tgctccggt tttcaatttc aagcttctcg atatattatg cgcctgaatc 120
 ggacttccgt ttgaaaagtt aggaccattt gaatttctag agagcatttg ttgttcaatt 180
 tcgagcgtgt cgatgtatta tgcgctgaa tcggacttcc gtgtgacacg ttatgaccat 240
 atgaatttct agagagcttt cgctgttcaa tttcgagcat ctagatatat tatacgctg 300
 aatcggaactt ccgtgtgacg agttataacc atttgaatct ctcgagagca tccgtgtttc 360
 atttcaacct tcttgatata ttat 384

<210> 5947
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 5947

tggaaatgaa caacggaagc tctcgagaaa aaaaaatggg tataacttat cactcggacg 60
 tccgattcag gcgcataaaa tatcgagacg ctcgaaattg aacaacgaat gctcttgaga 120
 aattcaaatt gtcataactt gtcacacgga agtccgattc aggcgcataa tatatcgaga 180
 agctcgaaat tgaacaacgg aagctcttga gaaactcaaa tggtcataac ttgtcacacg 240

gaagtccgat tcaggcgcat aatatattga gatgctcgaa attgaacaac aaatgctctc 300
gagaaattca aatggtcata acttgtcaca cggaagtccg attcaggcgc ataacatatc 360
gagacgctcg aatatgaaca accaaagctc tcgagaaatt caaatgggtca taacttatca 420
cacggacgtc cgattcaggc gcataatata tcgagacgct cgaaattgaa c 471

<210> 5948
<211> 436
<212> DNA
<213> Glycine max

<400> 5948

agctggtcgc ataactctac tcgatgttag tttttaaaagg tgtgggtggt cgagatattg 60
aaagaagggt gaaaaaaggg aaggacatgg aacacatctg ggatttcgtt ttcggacata 120
aaataaaaat tattgtcccc aactagtcag tttttttttt cttcaaaaag taatattaat 180
gttagcctag ctgacactta taataacata tttcttcaaa attatcattt aatgtggagt 240
atgactgaca caagtaaaaa actataaaat aaaacatcaa tgaaaatcaa ttaatgccta 300
cgtagtgtca gttgatgcta tattgtgtta gtctcaaaac tattcctaca gggtcgcatt 360
aatttgatct ttctttgagc gcataatctc accaccttct ttatttcttc gattgtatcc 420
taatagttta gtatat 436

<210> 5949
<211> 385
<212> DNA
<213> Glycine max

<400> 5949

aaattgggtcc aaaacaaaac gtgagcccca tagacagcat ccaatagatg tcataccttt 60
tctgttacat atcgtggtag tgcaattgat gccagattgc acacagcagt ctcagttgga 120
cttgaatatt caattatctc agtacacaaa gctgacgatt taattggacc caaattctgg 180
tgattgcttt tcctattgca agtatgctag tagttgtaac aaaaatgctg gaattactca 240
tcgggtgaga acaataaata caaaatctca tgaggaaagt caaagacatc taagaacacc 300
accttataaa gcatgtacgg ggggtgcggt tctatctgtg acttcagaat ttcgaaccag 360
aggctctgtg cctggacaac ctcca 385

<210> 5950
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 5950

agcttgtaat aaccagaaat tattttttgt tatatgaacc catacaaagt caattatcaa 60
 tggcagtgat gcaaaaccac ttgttttagat gactgagtat agatctcttc cctgggtgat 120
 ttatatagtt acttgtacaa ttttaattttc tttaatgcct tctacaagca atatgtcttg 180
 ggcaatgcac tgtacaaagg gatgtttcaa attgtggtgg aaatggggtg aataactcat 240
 caatatactt ataagtttat taattttatc aatatattac aaaaacattt tcaacaaatt 300
 gtatctcttg aaaaccaagg cttagacctg ttggcttttg taaaagctat aatgcaaagt 360
 aagcctttta ggtaggcca ggcacaaaac gaatagccta tttcttataa tagactggac 420
 t 421

<210> 5951
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 5951

gcagaaaaca agttaaatta tacattcaaa aatgttgact ttttaaaact tgagagtaaa 60
 caattcacat cttaaacttc ttcaacatcc atgcattgac ttaagtaaag ataaacataa 120
 tggttgtcac tctaaaggcc atacaaaaat aaagtaaagt aatttacata aatccataaa 180
 gaaattctat aaatgtatga ccctgccttg atgtcatagc tatcaaacca acgatcctac 240
 cttaaataat atctaaacat atgaagttaa gcctgttctc tagcattatg ttcactactc 300
 tgatgatcct tacctttgtg tggcaatcaa cccaacaca tacaacaaaa acagataggg 360
 gaatgagata catcttacca catataacaa tataataatt aaaggcaact tagaatcata 420
 catcattaca cgttgcaact tattcac 447

<210> 5952
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5952

agctntcagt ttgtctaccg aagcatggct gtggttggtg ngaaaatggt gtgcttgata 60
aatgttaagg tcaattcttt cttttattaa cagtgccttt gaaccatttt gtacttttgg 120
tcaacaacct actgtagaaa agtgtgattc gtgcatccct ttgttgcatg tgttggtca 180
tacctttgcg ccctgggctg ttgcatctaa tatagggcct ttttttaaac agttacaagt 240
cattgagtg c ttaaaatata tttgttctgg tgctcatcct gatatggaaa tgcattgtgag 300
tatattacga gtagtctttt gtttccccctt attgaatggn gaaattaagt tcatttggct 360
acttgggtaa actaccgct tctatatatc ttttattcaa aatgccttca tcaaaatacc 420
atcttctac 429

<210> 5953
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5953

gaacatatgc ttagagataa gctaggtggt gtgtctttag tcaataactta aataattatt 60
acaaaagtca accattttcc cattaataat aatntatatt tgaatattct ttgggttattt 120
gtcatgaca actatataat ttaaatacaa atcatgtatt cctcatcgat gtgtaactta 180
ttatcaattg ctactctcg ttaagattat tgttctctta actgtagaat gggggcaact 240
ttccctcaac tctaaacttt tgataataaa caataaaaag ggaaagaaat gttcttataa 300
gttgaagaan anaaaagata acactcatat gtcatagaat acaatcacat aaattatcat 360
cactgctatt caagcttata ccaattatgt atat 394

<210> 5954
<211> 390
<212> DNA
<213> Glycine max

<400> 5954

agcttgaaac attggaaatc ttgggttcat tcccatcttc cggctggatc ttcccaactta 60
gagtgaccaa gggaaacttc atgaagaagc agaaactaat aaattagctt taatatagat 120

tttgaattaa gatactgttt ctgtaaagac attaattgaa tggatttgag ttgactggtg 180
cagctatddd gtactcaaaa gaagccaaat agaagtcac aagtdtdtdtg tttggtatga 240
taaactaggc ataacacttd tggccaatag tagttgattt tagttgcttg ttagcatata 300
atggattcac tataattgct tggaaaatag tctactaatt taaacttatc aaacaaccat 360
tatatacgag atctcaattt acacattaaa 390

<210> 5955
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5955

tcggatgtat gatgaaatat taaaatataa ttctttgaac tntctgatgc catgatgaga 60
aaagagtaaa ttgtatagga ttctcatatg caatgcaaaa ttgggctggc cttattgaac 120
ttgggtccaa tggatctagg agatccatac agtacaagtt acttgagaaa gtttgcttca 180
gctagataga gagaccaaca agaaagcttc agctagataa ataattccct cctatatddd 240
ctccaagatg tgctcttdtd gagaaattta ttcttgaaaa taatacaaag aaggagcttd 300
ttatccatgg tgacgtcatg aaactcaatt ctattdgtc taatgctgta ctcaatcttd 360
tgcttgatgt atatatataa ttatgcat 388

<210> 5956
<211> 318
<212> DNA
<213> Glycine max
<400> 5956

agcttgctcg gttcaatttc aattaagcgc ttggggcatc ccacggactg agcaaaaggg 60
ctcaggttat caaaatattg cacgtcttdt aaagcacaaa gcgaggatca gaacctcaac 120
cctacgttdt ttdtdtdtaa aagactgcga tgagagatat tacaaaggac aggaacccct 180
gtgggaaacc aagaagaaca tacaaaaata aaacatgcaa cggcttdctc aattgcccc 240
gatattaagc gtagtatcgc ttgacaacgt tggagttcac ggggtgaagg agctcctcgt 300
cattcatggt ggcgagca 318

<210> 5957
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5957

tgcctcanag aggtccagga aggacaatgc ggccgaagga tctagttctg ctcctgagta 60
 tgacagtcac cgcttttagga gcgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcatttctc cgggagcgac gtgtccagct canggacgac gagtatactg atttccagga 180
 ggaaataggg cgccggcggt ggacatcact ggttactccc atggccaagt tcgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgngta aggggtcagt ggatctcgtt tgatgctgac gctatcagcc agctcttggg 360
 atatccgttg gtgttgaag agggccagga atgcgagtat ggccagagga ggaaccggtc 420
 tgatgggttc gatg 434

<210> 5958
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5958

agcttgcttg tggngcttct atggagggtg tatctttgag cttcaattgg gtcctttaat 60
 ggtgattttc gaccatgaag atgcagcgga agacaaagga aaataggtga gaggaggcgc 120
 catccattaa ggaataagcc atggaagaag gagcttcacc accaaaatga gtcttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacgaa attgaaggaa taaaagaggt atagaagtgg aactttgaag tatgtctcac 300
 aagactctca ttcacaaag ttacaacaag tgttacacat gcttctattt atagactagg 360
 tagcttcctt gagaagcttt cttgagaaaa cttocttgag 400

<210> 5959
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5959

tctacaagaa gagatggcca cggggatcaa gaatggacta ctcacaaaa gtaataaagg 60
agaaaatcac aaggagctga attggagcac tttgaagatt gttgaatagc tcgcttagcg 120
gcaccaactc gctaagcaca attccagctc gagaagaaat tgtgcttagt gcgaatgccc 180
cgcttagcgg aaacctttca ctagaatttt cgaaaaactt gtgtctactt gtgtaccagg 240
cttcaagctt gatgtagata ggccttaaat ggtgtgttta aggggttatt agagggttag 300
ttaccttctt atgcctagcc ctataaatac tcaaaaactc ttaattntgg aaaattnttg 360
tagaattgaa attaagttgt gcttagagag agctntagcc tcttc 405

<210> 5960
<211> 284
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5960

agcttttctt tgtgggttga taggttctgt ctcgtagaat ggcacgatca ttggctgaca 60
tgttctcaat cagctcagtt gcttcttccg gngtcttcat ttntatcttt cccctgcag 120
aagcatctaa cagttgcttt gtttgtggtc tcagcccatc tataaacata ttcaattgga 180
ttggatcaga aaacccatga gtggaagttc atctcaacaa gcctctgaac ctttccaatg 240
cttcacttag agacttatta ggacactgat ganatgaaga gatt 284

<210> 5961
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5961

ggcctcanag aggtccagga aggacaaggc agcagaagga actagttccg ctccggagta 60
tgatagtcac cgctttatga gcgcggtaca ccagcaacgc ttcgaagcca tcaaggggtg 120
gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg atttccagga 180
ggaaataggg cgccggcggt gggcaccact ggttactccc atggccaagt ttgatctaga 240
aatagtcctt gagttttatg ccaatgcttg gccaatagag gagggcgtgc gtgacatgag 300

atcctggtta ggggtca

317

<210> 5962
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5962

agcntntaaag gatgattgta ttatataact tataaaacgg tttcccaatt aaaaaggaat 60
aaaaatgtgt ggcagtataa ggataagaca taanagctgc gaacagttga acaagaatag 120
gaaccttgga atatggaaat cgaaggaaac agataaaggc tgaagggtgcc accgtaatag 180
tctttccctt tattcaacgt tcaatcataa aggctggtcg accaacgtgt gctcatccat 240
gtcaaattga atttggatat tttaaatttt aatcttataa atcgaaaaat ataattaaga 300
ataaatactt tattacagaa aaatacatat ttttgtacga atataagtat tggaaaggta 360
ataaattctt ga 372

<210> 5963
<211> 356
<212> DNA
<213> Glycine max

<400> 5963

tatccacctc tcataaattt gaaagtcaat gtcaataaag tccaacgttg ctagatatgg 60
aaatatacga gtcaaacttg ggtaggacc attgaggcat taaattaagt ttaatataac 120
agcgtagtgc ttggctaaca aggaatggga aatcaagata ctacctcaa ttctttttta 180
tcataagaat ctttctgata aaattgttta tttcttcacg taaggctctt tttatattgt 240
atTTTTTTTat taactatTTT tatcaaaata tttctaatta cttataactc tttagttaac 300
aaatagtaga gaaaaaatgt tatgcattaa aatgtaaata attatttatt atcact 356

<210> 5964
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5964

agcttgctaa cccatggaag ctccataatat ctcccacact ttttttaggtg ggccattctt 60
 ggatggcctt gattttctca gggtcactt ggacccatt tctaccaact acaaacccta 120
 agaaaactat attatctaca caaaaagtac acttctctat atttgcatag aggggtgtttt 180
 tcctaaggac tgaaagaact tgcctgagat gtcctaagtg atcatctagg ctctactgt 240
 atactaaaat atcatcaaaa taaacaacta caaatatacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagtgag cccaaaaggc atcactagcc 360
 attcatacaa accaaacttg gtcttgaaag cggttntcca ctcatcacc tttttcatct 420
 tgatgtggtg atacccactt t 441

<210> 5965
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5965

ctaagctatg caccctntn ttcaatatta atcaacctga aatcacacac aatcacaagc 60
 aatcaactac actcaatgca aagaaaacaa aattaaaaat aaatgactgg gtttcctccc 120
 agcaagcact tgtttaacgt cattagcttg acgcateget ctgttatcct agatcaatct 180
 tggttctctc tttcagaacc ttctcatcca actccttcac ctgtaagcac acatcctggt 240
 ccagcagttc ttttccttca ttaaatagat caaagctgat ttgttggttt tcaagactca 300
 tttctaactt tttcttcctt atgtccacca cacagcttgc aatagacata aatggacggt 360
 ccataatgac aggaatatctt gcattcttct caatgttcat tacaataaaa tcagtaggaa 420
 aaataagatg ttntactcga accanaacgt cttcaatcac tccat 465

<210> 5966
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 5966

agcttgagat gaggaagtgt agaaggggtg tttctcctgc ttttactcgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca cgagaccttg gggacgtcag gtgggggtgct 120

attgtccaaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa ctttgattga tatgtggggtt 300
atggcctctg gtaatcgatt accaaggggtg ggtaatcgaa tacaacgctt aaaaatgaag 360
acaggaggct aagatggtct ctggtaatcg attaccaagg agtgtaatcg atta 414

<210> 5967
<211> 228
<212> DNA
<213> Glycine max

<400> 5967

ctgcacaaga ctctcaatta taagagtgac ctggagatcc tccagacgtc gaagacactg 60
tccagcacga tgctattcct tcatggactg agaggggcaa gctgcgggca tgattatcat 120
cttcccataa taccttggat caacagagat cgtgtctccc tataccactt cacttgggaa 180
tgaacgctac ttgtcttatc gagaatgata tgccgtgcta ttgcgtgt 228

<210> 5968
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5968

agcttctcac tttaaaattt agaacatata ttaggaaatt tattataaac taaagcatca 60
aagatTTTTg aaagtccaat ttacaatata catcaagttc atgcttactg atgttttctc 120
atgtgtgctt ctgttcggtt gtgtatttat ttatatattt attattttct cttttaggtc 180
tgtgccagca tctggacttg atgcagtgat tcctagtgea aatcagctta ccatcttcta 240
taatgggagt gtttgtgtct atgatggaat cctgcagag aaggataacc catgctgcac 300
tttaatcatg aatcaatctt gcagctgctg tgccttcaat ccaggctcta actttacatg 360
ttatgaactt atgatgcaat cctaatacata cantcgttta ttactaaca cgtgcatgac 420
ataatgctta ttg 433

<210> 5969
<211> 392

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5969

tggcgccaaa cataagagct ttgcacaaaa atggtgaaca tataagtaga aaagaagaga 60
tttaagagct tcataagaga gatttaagag aaggagtctg aagtcactca ctactatgga 120
gcttggaaga agataaaaat ggtggtgtct tcctcattga aggtctcatg caagaagaag 180
aaaatgaagg ttcaagtttt ggttttttga gaggaatgg taagaaatga tgagaagtga 240
tgcaaagcta tgcctaattc tattgataag ctacttgat actactaaa aatgtagatt 300
taaatacgta tttaacatcg gttnttgata aataccgatg ttaacaaaaa catggtggca 360
taatggtaaa taatgtgact ntcttaacat cg 392

<210> 5970
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5970

agcttggttg gttcagcttc aattaagcgc ttgnngcatc ctatggattg cgcgaaaagg 60
cccaagtcac caaatactac gcactctttaa aagcacaaag tgaggatcgg aacctcaacc 120
ctacattctt ttaaaagatt gtgatgagaa aattacagag gacaggaatc cctgtgggaa 180
accaagaaga acacacaaaa ataaaaacat gtatgcgactt ccttaattgc ccagatctt 240
aagtgtagta tcacttgaca acgtcgaagt tcatgggtga aggtagctcc ttgtcatcta 300
tgttggtgag caccagggcc cttccggaga aagccctttn tacaacaaag gcccttcgta 360

<210> 5971
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5971

tgaagcatga gccgttctga gagcttaaga tgagnttggt agtgattgtg agatcctaga 60
ggtgcaggag acatcctcac cacttgattt ttttcaatct ttcactctgt tcttctcttt 120

gttgtaaaga aggccttccta gttatcgaaa gctaaatcct ctgttggatc ttccctatag 180
 gtacctgatg taaatatatt tttatttatt taatgatggt ttgtgtgttc tctgtgctat 240
 ctgcttttca ctccagtatg cctttacctt gatcacgcag atgcatgctt tgtaggggtc 300
 attcaactat ggaaactggt ctgattctaa agtccttgag agtacatggc taagttgtcg 360
 tactatcacg aggaatcagg gtgcgataat ttagtttgtgt atgtgtttct taatgc 416

<210> 5972
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5972

agctttttatc tagccaagat catacaaaag tgttacaaca gaacctaacg gtttctaatt 60
 atgtggggcca tcaaattctat catgtgtnga caataattga ttagcccatg aatttcctct 120
 ggggctgaac acacttcggc gatggccatc gctntggctt gtagtcgcgg gaggtcttga 180
 cttccattta aggtcaaggt gaacctatcc atccacatgg tcgcttcttg atgcaatgca 240
 tcaatcacc cccctcttgc ttccttctcg gcgtacgctt gtgtgaagtc ctctactagc 300
 ttttgttcat gggctaaaga ctgggttaac tcttcttgta ctgccctatg atagctagca 360
 tg 362

<210> 5973
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5973

tctatagaaa ggtcattcct aatttctcta caattgcac acctctcaat gagctagtga 60
 agaagaatgt ggcatttacc tgggggtgaaa aacaagagca agcctttgct ttgctcaaag 120
 aaaagcttac taaggcacct gttctagctc ttcctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgttttggt gcaagggtggg caccctattg 240
 cttatttttag tgaanaactt catggtgcca cccttaacta cccacctat ga 292

<210> 5974

<211> 312
 <212> DNA
 <213> Glycine max

<400> 5974

agcttggggc tgctgccaat ggtggctccc gtaagcttgt tgaaggttct tgagctttgg 60
 gaaagaaatg gggtgaaaat ggcttcaccc cccccccccc ctttaagttt tctcatcaaa 120
 ccacgctcgc ccaagcgagc tgatttcaat tttttttttg caaaaatatt ttttgcaaag 180
 ctgtgctatt cattgttata ttttctctct aaaaatccta taattgcata taaacttagg 240
 cgaattcagg atataattca agaaaacgaa caagtatgaa aaaggaaatt aaagagcaca 300
 tttagagata ct 312

<210> 5975
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5975

tcaattataa gaacttgagg agatatgctt agaagcctat gagaactcca agatttacia 60
 ggagaaaactg aagaggtttc atgactctaa gattcttaag aaggagatcc atattggcca 120
 aaaagtgatc ttgtataact ctgcttcaa gcttaatttt ggtaaacttc gatctatatg 180
 ggatggacct ttttttatta ctaatgttnt ccccatggca caattgagat taaaaatgaa 240
 gttattagca aagtcttcaa agtgaacggc caccaactca agctttttca tgagagcccc 300
 aagtgggtgga gcagtttgtg gcggacctct ctttgatctt gccaaactta tgtgatgatg 360
 tcccttgaat ggaactngan gagtttccat ccccttcttt tgtatgttgt cacttttggt 420
 gcctttcatt gcatgctcac attgagaaca at 452

<210> 5976
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 5976

agcttacagt tcaaatcaaa agacatcttt ttgtaatact gatatactct ccagagattt 60
 gagtttttct tttttagctt atcaagttca ttattagcaa tgggttcattc ttttttaagt 120

aagagttttt gtttaggcat ttcccttgac ccttcttttg aatcttcaag agttgtagtt 180
gattttaccc tttcttccaa gtcttgaaaa tccttaagaa gagtttttcg ccactagat 240
gtatttttgt ccaatagtgc ttgacttcc tcacaaatag aggtatctat tcactactag 300
gcgaagaagt ttccaggaca aaattaacta agtgaacttg atgagctttc ttgaaatcct 360
catgctctct ttcaagatgt ttaacacctt ttatttaa 398

<210> 5977
<211> 468
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5977

tagagaggaa gttcaatgga ggaagagaat aagagagaga ggaaggggtgt gggaattcaa 60
ggagattagg gagagaagtt gaactttgaa gtgagtctca caagtttccc attcattaaa 120
gttatgacaa atgttacaca tgtttctatt tatagcctag cacatggaaa gcttccttga 180
gaagcaagga aggtatcttc gttgggaagc tagaggaaga aagcttcctt gagaagttag 240
agggggggcta ctcacacccc tccaatagct atgctcagcc ccatgccaaa atatatgana 300
atacaatggg aagcttcctt aagaagcgag gaaggtagct tccttgggaa gcaaggaaga 360
aaacttcctt gagaagctag aggaaggag ggctactcac accctccaat agctaagctc 420
acccnctgtg canaatacat gaaaatacca aaaaagtcct tactacaa 468

<210> 5978
<211> 294
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5978

agcttggtccg agcagttgag caagaccgaa taaaatatgt gggccatcac cgactagtag 60
aaggaaaagt taagcctatc agcgactcat gagcaaaggc tagaggatga gtacaacaag 120
gtatcaatcc tgcaagcgaa aaggaaagca agggaaaggg tgatcgattc attgcacaga 180
gaagcaatga tgtggatgga ccacttcgtc tgggagtcaa gaacttcctt aactgctagc 240
caaggccana ggaatggcgg atgtgtactt agttctcgag gaggttcacg ggct 294

<210> 5979
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5979

tanactcana aagaaaggtg gagaataaag tgagtgaacg actagaaaat agcttgtatg 60
 catcacttgg tttcaggttt gtcacatca aacaggggga aattgtggaa gcaaagctac 120
 gatgatgatt caccaagaga tgatgccaaa gctcaaagag gtttttcaag attaaagaat 180
 caagcattca agattccact caaagattca agaatcaaat gaagaaatca agaagcatca 240
 agccaagtca aagtaggtag ttaaaagtat atttttcana aaacatcaaa tagcacactc 300
 tttcgtttaa aaaggattct ctgaaatggt ctaagtta 338

<210> 5980
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 5980

agcttctagc caaatggact tacottgaat taattccttt gatagcccct ttgagcctat 60
 gttccccctt ctttgttttg aagctcatta caaaccttaa atgaaaaacc atgatatac 120
 cttaccctta aggaattttg gagctttgga attgttttgg gaataagttg ggaataagtg 180
 tgggtggtat gtttcattgg aagatataat ttttgccat gcttaatggt ttattttggc 240
 catgcttgat gtatatatat attgcctagt tcttgcttta atcttcaaat tcatactatt 300
 aaaaaaatg aaaaaaaat tcaattggtg caaattctgc aaattcgtac agttcaaaaa 360
 aaaaagagaa 370

<210> 5981
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5981

tcggcccat tgtcttcgtc gccctccctt ntcgctntac cttaccccag tagaggctgt 60

gatttagcaa ttgaagcaga ggatgaaaga aagccctggt tgggtggtgct acggggggcag 120
atctgcaact accgttcact ctttctctct acgacgtcaa taaccttgag aagggtatgc 180
cgtaatcgat tgaagcttac tttataaagg ctgaatctct ccttaagctt atgttgctat 240
ttttatgtgt ttttctctcc tgggtggtggt tgtgccattg atctgaatga agaaacacta 300
gctattcatg tatcttttgg ctctcttttc ctttctcca 339

<210> 5982
<211> 429
<212> DNA
<213> Glycine max

<400> 5982

cctgaggaat gcacgcttgc ttctacactt ccacttgcca atattttcaa aggactaacc 60
tctctgagat atcttttgtt tccctttaca aagatttaag ggactaactg cctaagaatt 120
ctttgtctta acacattgga gggtagatcc ttgtgtgtac aagtagagag tacatctact 180
tgggttgtaa tacttagaac aagagcgggt acatctcttg tggatcagtt caagtggagg 240
gtacatccac ttggttggtc aaagagaaca agggagggtta catcccttat ggatctttgc 300
ttgtaaagga ttttacaagg ttattggaaa tctcaagaac cgatgggtgc ttggtgactg 360
gatgtatgca catgttgttg cctaaccagt ataaatcttg tgttcgcttc ttcgccctac 420
actctttac 429

<210> 5983
<211> 442
<212> DNA
<213> Glycine max

<400> 5983

tgccacccag ctgcgccaag cgagcagggt tgcttcctct ataagcaaca gccttctgga 60
ggaatcttct ggagggccca agtgggcctg gttgctatct gcaccccat ttttactaag 120
tacacccctt gccttttttt tgggtgattct tttttogtaa agttacggaa acttacgaat 180
ttcgtaacga tacttgtttt ctttccgtaa tgttacggaa ccttgatgaat tacataatca 240
tccctttttt gacttacgga atgttacgga acctactaa ttgtgcaacg atgcttccat 300
ttgatttccg gtgtgtcacg gaaccttacg gattgtgcat caatattttc ttttgttctc 360

cgggcatgtcg cggaatttca caaattgcct aatgatgggt gccaaagcacc tcacaaggac 420
 caaacagaag tcgcatgtca tc 442

<210> 5984
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5984

agctntaaac ttcattgcat ccagccactt tctcttttct tcattatcca tggcctctct 60
 aaatcactca ggttctccat catctgttag gatcacatac tcattaggag aatacctctt 120
 agaaggttgt ctctccctgt tggactttct gagttgaact tgaggtgggt cggtggcatc 180
 accaagatth tcatcttggt acatgtcatg ctctcttcca tcatcatcat caacatgaac 240
 atctacctca tctccagggt gttggacact aacatcattc ttaactttag tattcagatt 300
 ctgaataggc gattgaactg gttgaaaatc agccacacca ttgtcttctt tgggtgtaaa 360
 cttatccacc ttatcaatgt cttcaatggt ttggtcttcc atgaatttca catcatggct 420
 tctaacaagc ttcttctcaa taggatcata 450

<210> 5985
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5985

ntgatgatgt tgagaagaaa tcacatgttt gtcatcatca ttaagggaga gaatgtgaat 60
 gtatgtacac atgattttga tgatgtcaaa agaagaatca aacaaggctc atttgcacat 120
 agattaatac aagattgttt caacaaacaa agccttgatt caagatttct tcaagatcaa 180
 gccttgccctc aaaatgaaag atttcaagtc atccaaggca catgtaatcg attaccaaga 240
 cacatgtagt cgattaccaa tggtttgaaa gtgtgtaatc gattacacat catatgtaat 300
 cgattaccag agactttgaa cgttgggaat tcaaatatta aatgaagagt cacaattggt 360
 caagaaaaat aactgtgtaa tcgattacac taatgttgta atcaattacc agagagggat 420
 ttcaaggaat atcgccaaca atcacatctt atcat 455

<210> 5986
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5986

agcttaggat aaggggttatg gatggttggtg tttctcatag gtcaagctac aaattgtgac 60
 aatgaagttg gctcgagtat tttcggtgga aagctccagt tatctattta tgggccatgg 120
 cctactcaat ctttaataaa tgaccaagtt ttacaaaaat caaacttttg tttttctgaa 180
 ggaaaaatca acttattatt cggttttgat tttaacattg ttactcttac gtatcttgca 240
 acagcgcaag ggggccagct ccaaaatcta gttgtggata aatctaaaat tcaaatggat 300
 caagtgtcat tataaaatag acagttatga ttctaggaat ccctctctaa attgtcaatt 360
 ttagactttg ngatcacat 380

<210> 5987
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5987

cttgtatccc agggagggga ttngagctta atgttgatgg gtctcctttg aagattctga 60
 gaaagaacat gaccactcta gctcagacat ggagcggttct ttccttctcg aacctcatte 120
 ccacctccca tacatatgat gtgaccttg acagagccaa gttgatttat ggtataatta 180
 tgaatatgga tatgaacttg gggtaacctca tctcccacca gatctctctg attgcacaac 240
 ataatacatc caaacttgga ttccttgctt tgatcacagc tctatgcaag gccagaagag 300
 ttcagtcaaa ctttagatcc ctagagagct tgagccctgc cattagcttg gcatatatta 360
 agaagaattg tagaatcttg atgattcaac agtgacattt agagggccaa ggaaggccag 420
 aggtatgaga tcagaggccc ctactac 447

<210> 5988
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5988

agcttagaca tatgccaccc acgnggtcc tttctcacta tattatttcg tcctttgtcc 60
tcatttttac attttgaggt aattgtttcc tctatcccaa ttaatatatt tcaattttctc 120
agaagtactc gcgggttccg aatattaaaa aataaaaata taatctataa ctattaatat 180
taaaaaatta ttctattaat aataacaatt ttatccttaa atcacttctt anattttaaa 240
tntttcttct aacttacatt aacttttcac tatttttata ttattagttc tttttattct 300
tgtcattttt tattaactgg tttatttttt tattatctaa aaaattttaa g 351

<210> 5989
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5989

gtgtattgct gcattctact aatatatgga gttgtccact tctttgctg agaataacaa 60
ttgcttgacc acaacaacgc tggagacggt aagggaacaat ggtctttcaa ataaacatgt 120
tgtacatgaa caaagattat atcatgcggt gaccgtgtca aatgaaccag cgaagtcatt 180
gcataattgt tatactaact atattcaatg tacctgaaca aaatgatttc caaacacgtg 240
accgacacat atcatgcggt gccagaaga atcagggtggt tgttgacttc taagaggaaa 300
aaatgtcatg ctttggtgtc gggacaatga tacaaggatt acgttatacc gtgatgcaat 360
cacatatccc atctccgtta tatccatcca cttgtccact ctaacctgaa tcaacaaaac 420
atacacatgt aagtaatnta tagtttgtat taaaaaata acctanaaca ta 472

<210> 5990
<211> 437
<212> DNA
<213> Glycine max

<400> 5990

agcttgcata aagaaatgtc agaggatgaa attgcatgtg gctgtattag agcacattga 60
agagaaaggt gtcatgagaa gaaaagagg gttgtttccc taattattaa ctaactgcaa 120
ccaccaagtc acaagggtgt aaccttgctg ttcgacaatg gctcgccac tatccatcag 180

actaatgcaa ctgttttaac aaattatttg gctacatatt tcaaaacata taacctaagt 240
 ttagcttaat taaaaatgaa ccttaagaaa gtgtttgacc ccattgtact gcaaaagaat 300
 gagtattctc attgaaatct tgtccaaatg aagggtgact gaaacaagta cgaaatgaat 360
 ggattttaga agaatatcat accttttgcc ttaatgaata gctagcagct ctaataccag 420
 caaattcatc aactaac 437

<210> 5991
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5991

tctctttttc tattatttta tttaagcaat gccacatgtc tccatttgag tggagcaaga 60
 agggcccact ttctcttttt gactgtgacc cacactcagt cacaaaagtg aggaaaatct 120
 aacctttgaa acgctaaaaa tcctgcctcg gtttgtgtgc cgtttctctg gttccagttt 180
 ctgcggtttc tctgcgtccg tcggggccag ttttcgaaag taagcaatat atatatcaa 240
 acgctcataa tagaaccctg agcgtgggtc agaggttggt ttcgttaaatt tctaagtcgc 300
 acacaaaacg atgattntta aactaattaa ttaagaatta acccataacc ctccagttat 360
 ggatttctct tccttaatta gcctaaccg cgtatcttgc ccncactact cctacttcta 420
 ccaagaacac atatgcatat aactgaata aaacttat 458

<210> 5992
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5992

agcttanaca ttcaatttct aggcctctcg tatattacgg gacttaatca agcatccaag 60
 aaaaaattta ttgtcgtttg aatttgctca gagattcaac attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
 cgagcttcaa cattcaattt cgagcgtctc gatatgttac gagactcaat cagacatccg 240
 agtaaaaagc tattgtcggt tgaatttgct cagagattca acattgaatt tcgaggggtc 300

cgatatctta cgggactcaa tcagacatcc gagtgaatag ttattgtcgt ttgaattggc 360
tcagagcttc aacattcaag ttcgagggtc tcgatatatt acgggactca at 412

<210> 5993
<211> 362
<212> DNA
<213> Glycine max

<400> 5993

atgagccaat tcaaacgaca ataacttttt actcggatat ctgattgagt cccgtaatat 60
atcgagaccc tcgaaattga atgttgaagc tcttagcaaa ttcaaacgtc aataagtatt 120
tactcggatg tctgattgtg tcccgtcata tatcgagaca ctcgaaattg aatgttgaag 180
ctctgagcca attcagacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac actcgaaatt gaatgttgaa cctctgagcc aattgaaacg acaataactt 300
tttactccga tgtctgattg agtcccgtca tatattgaga cgctcgaaat tgaatgttga 360
gc 362

<210> 5994
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5994

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tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgacccc cctttttttac 120
taaattgcacc ccccttttct atttttttgt aattcttttt ccgtaacgtt acgaaacttt 180
acgaatttcg taacgatact tattttcctt ctgtaagggt acgaatcctt atggattatg 240
tatttactct tttttacctt tcgaagaagt tacggaaact cacggattgc gcanaaacac 300
ctctttccga cttccgccac actacggaat ttcacggatc acgcaagcct gcttcctttt 360
ggattttctga gacatctcgg gacttcattt attgcatgtc atcaagtaat aatccccgg 419

<210> 5995
<211> 458
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5995

ttannaattg aattanaacg ttcaataact gctggtaatc gattaccata tatgtgtaat 60
cgattacaca gtgcaaattt tgaattcaaa ttttagtagc tggtgtaaatt cagttttggc 120
cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaattc tcttgaaaaa 180
gactttntaa cttaaatttc ttggccaaac cttttgctac ttcaatagga attcccttcc 240
tattttaata tactctttct aagactctag aaactgtctt gatcatccat cttgaatata 300
tttgtcttga ataaagcttt gagaaacacg taaccctttg gcaagctttc cctttggcac 360
catcaaaaca ttcagcttga tcctttgtct acaatctccc nctttttgat gatgacaatc 420
ctganatcaa gacaagctat atacaagatg atagcacg 458

<210> 5996

<211> 396

<212> DNA

<213> Glycine max

<400> 5996

agcttgaaat tgaacaactt aagctctcga tataactcaaa tggtcataac ttatcacacg 60
aacgtccgat tcacgcgcgt aatatatcga gacactccaa attgaacaac gtaggggtctt 120
gagaaattca aatgttcata acttgtcaca cgaaagtcca attcaggcac ataatacatc 180
gagaagctca aaattgagca acgaatgctc tcgtgaaatt cacatgggtca taacttgtca 240
cacggaagtc tgattcatgc gcataatata tcgagacgct cgaaattgaa caaccaaacg 300
tctcgagata ttcaaattgt cataacgtgt tacacggaag tccgattctg ggccataata 360
tatcgagaag ctgaaattga caacgacgct ctctag 396

<210> 5997

<211> 429

<212> DNA

<213> Glycine max

<400> 5997

tgagattgaa caacagaagc tctcgatata ttcaaattgt cataacttgt cacacgaagt 60
ccgattcagg cgcataatat atcgagaagc ttgaaattga acaacagaag ctctcgagaa 120

attcaaatgg tcataacttg tcacacggaa gtccgattca ggcgcataat atatcgagac 180
gctcgaaatt gaacaacgga tgcactcaag aaattcaaatt ggtcataact tatcacacgg 240
aagttcgatt cagacgcata atatatcgag aagctcgaaa ttgaacaacg gaagctgtcg 300
ataaattcaa atggtcataa cttatcacac ggaagtccga ttcaggtgca taatatatcg 360
agaagcttgg aattgaacaa cggaagccgt cgagaaattc aaatgggtcat aacttatgac 420
acagatgtc 429

<210> 5998
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5998

agcttagcag ncaattgttg tcttccatcg ttatcctgat caccgtgaaa gtcctcaaca 60
accactctgt catgcacctt atacagagca tcttgagccg gagacacata attgcctcca 120
ccctcaacag cattagtctc atcactgaga ccataaatag taacaacgcg ctcttcgcac 180
ccgggcacag tctcaccaat cctaatttta gccttagtct ccaccctcag ttgcttaaca 240
atctcacctc ccctaccaat aacactgcca atctttcgac ccgggcacac ataacgatac 300
acggtatcct ccgaatcaat cacaaactgc tctctatcat caccatgatt cctcctttta 360
attggcccat tatcatg 377

<210> 5999
<211> 371
<212> DNA
<213> Glycine max
<400> 5999

ctaagtgtg ctatTTTTac tgggactatc tactatctta agcgggactt ggcatcttaa 60
atagatgttg gaaaggatat attcaccctc tacaagaggg agtctggtga gcattttcaa 120
aaggtaatct ttttggggaa ttttatcaca gaccacaact gtgatagcca ttattatgct 180
ttgagatgct acagttttga cgtcttagtt cctttgtccc acatacgttg gtttgtaaaa 240
tatgtgtctc attagtgtta tatatagaga cactcgcaag ctgtagatgt gcactaataa 300

tacagttttt aagtgtacca tggacgtagg ccactaatca cagaggctaa atggagattt 360
ttaatattgc t 371

<210> 6000
<211> 378
<212> DNA
<213> Glycine max

<400> 6000

agcttttggcc aaaccccagc agcagttggt tccttagaga cttgccttag caccttgtct 60
ttgagactga ggataattac actgtgtgcc ttttgtagta gtgctttctt atccccatca 120
gccatcatct tttcaagttt ggcttctcca tcaagtgtt ccaccaggcc ctgctgaaca 180
agaagagctc tcatcttcaa tcgccataac ccaaaatcat tttgcctgt gaatttttca 240
acctcatact tggccgagtc cattttctga atcgaactca aaaatcgctc cacgctcacc 300
gcaccaatth gttgtgccaa gatcagattt tagttcacia aagaatgagt ttcttgtatg 360
aacaagaata agcaaaat 378

<210> 6001
<211> 379
<212> DNA
<213> Glycine max

<400> 6001

tgttgaaatt gccatgtttg gatgagttag acatacccat tctgttttat ggtttttgtg 60
atgatgtttg tgatgtttat atgctgaaat tgcctatgga aaactgttag agatgaatgg 120
tagagttaac ctacggttag aaagttagaa tgtgatgtta tgagtggaaa aagagtggagg 180
ctttgagggt tggaaaggta ggtctgaatt ctgtggtaaa tggagattaa ggtgagttaa 240
tactagcttg aaatgtcatt tatgacttat gagaaagctt ggactgtgct agagagaaaa 300
acaaatgacc aaagtgaacc aagagccatt tctagggcaa aattgggtgt tgaggagtca 360
aactttgatt cggtagaaa 379

<210> 6002
<211> 399
<212> DNA
<213> Glycine max

<400> 6002

agcttgccca gtctagctag gttgcttctt ccaaaacaac cgccttctgg aggaacatcc 60

tggaaggccc aagtgggcct gggttctatt tgcaccctt tttttactaa atacacccca 120

tttgcttttt tgggtgattct ttttccgtaa agatacggaa acttatgaat ttcgtaacga 180

tacttgttct cttttcgtaa tgttggtgaa ccttacagat tacataatca tccctttttt 240

gccttccgaa acgttatgga actttacgga ttgtgcatta acacttcctt ttaattttcg 300

gcatgtcacg gaacttcacg gattgcgctc aacgcttttc ttttgtcttc cgcattgtctc 360

gaatcttcac aattgcctaa ccatgggtgc caatacctc 399

<210> 6003

<211> 337

<212> DNA

<213> Glycine max

<400> 6003

tgtatgtgaa aggatgtgac tcttcacatt tgaatttgaa tttcaacatc caaaggcact 60

ggttatcgat taccaaaata ttgtaatcga ttacaacttt ttgaaattaa ttggatcggt 120

gataattcaa tttgaaaaag ttttcaaaac aactttacta ctggtaatcg attacaacaa 180

tctggtaatc gattaccaga gagtaaaaac tctctggtaa acatgtattg agaataatca 240

tgtgctactc aattattgag acaaaactctt catacttata ttgattaagc cttttcttga 300

ttcttgaatc ctgatcttga ttcttgagat cttgaac 337

<210> 6004

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6004

agctntgccg atttagtttt catcggcgaa aggatcgaag tgggtttgag aagaggaaaa 60

tctgattatc ctgctttgat gaatgggaag cctatggcaa atggagagaa taagaatgag 120

ggaggaaccc atgctgtgac tatcggttctt atatggccaa atttcccacc agctcaacaa 180

tatcaatact cagccaatat cagcccttct cattaccac caccctatca gccagaaca 240

ctcaatcatc cataaaggcc acccctatat cagccacaaa gcctgcctgc tgacatccga 300

tccaaacacc acccttacac aaatanaaca ccaactagga ggaatttcta gaaataacct 360
aagaattacn ccattccatg tatatgctgc ttactcccta ttactcatat 410

<210> 6005
<211> 338
<212> DNA
<213> Glycine max

<400> 6005

tcgtgctcag atccctcttg gtggactagg cttaatttat acagccctcc taggtttaga 60
ctaacttaaa ctaagcttca tcctcagatc cctcttggtg gactagactt agcataaata 120
gcttacgaaa gtttagacta atttagccta agctttgtcc tcagatccct cttgttggac 180
tagacttaga ccaaacaaca ttattgtaac aacacattta aaaccaaacc ttaatccaca 240
gatccctctt gaagactaag tttcaattat gcttcattca agttctaagg aaacaatata 300
ttttccaatg ctaaaatcac ctaaccagac acacaaat 338

<210> 6006
<211> 351
<212> DNA
<213> Glycine max

<400> 6006

agcttgaacc tcacagaccc aatatcaatt atcttctaca ggacttggtg tttccatgga 60
ggactgaacc accaacttgt ttgacaagat cctcacacca cgacttggtt ggagtcatat 120
gaaacgaaca cccacagtcc aagatctatt tgtctcagtg ttcttatgag acaccattaa 180
agcctcagct gaatcatatc catcttcaac tagagtagca tttccaggct ctttagatcg 240
atcttgctcg attcctttct gtctattacg acagaactct tcggtatggc ctggtctttt 300
acacgtggta catctaattg ttgtacatta catccatacc gagttggtga c 351

<210> 6007
<211> 403
<212> DNA
<213> Glycine max

<400> 6007

tcagcttgca cgccagagtg ctcttcggct ggccgattgc tgaatcataa tcctctgccg 60

gaataagtgg gcaccacccat tccataccat tatagagaat caaataatat atatatcctc 120
agaatctcat taagtcattt ttattgatac gaactgtata taagtattaa caaatattatc 180
agacttccgc gccatacttg actaagttat aagataacct ataggatgct attactttgg 240
agataggaaa tccgatgctg aacttttagat gataaagaga taaactttct catattatcg 300
gttccgaaaa ttagcgcggt gagttttact aaatgacgac atcctagaac atatccattc 360
aagcacattg gtggaattat atcatacgct gatataagca aat 403

<210> 6008
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6008

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ccagtagcac gaagcttcga cacagcattc ttgaaagtat tgtaagattc agtgtagttc 120
tccaacacgt agtacatgac tcccatctga gcttcaatac cagctattgt gttttgctga 180
ccagaggctt cattaagtat ctctagtgcc ttgtgaagta acttaagtgc ctgttctagc 240
tcattcattg actcataaat ggctgagaca ttcataaaac cactagcaac ctctctctgga 300
gggaccccag gcatgggatt ctcatagatn ntaagtgcac tctcacaata tgattttgat 360
tcccttatct tccatgtcct gcaatacaag tcagcaaggc gtacaaagac tgatcccaca 420
gaaggatgat tctcaccttt gtgagtcct 449

<210> 6009
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6009

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ctcggaatga ttagtcgttt atgaattata agatgagaaa ataaaattat caaatgtaaa 120
aagttttacg taattattca attgtaagat tttatatata ttaaatttat taatttttaa 180
aataattatc ttaaaataat ttaaataata atttataatt aaataataat ataaaattat 240

tttattctgt tataataatt acacttaggg catcttgaca tatgcttcaa actttcaact 300
cctaatttaa ttntgcttga actttaactg ccagccatac acgattctta gtacggctaa 360
gggatatatt ctgtaccgcc aaaagcccaa accccccttg aattattgat tatntatttg 420
cgccaatttt tgttggactt ttatgcaaga ttactggttg agcc 464

<210> 6010
<211> 302
<212> DNA
<213> Glycine max

<400> 6010

gcttgcttct acacttccac ttgccaatag tttataggac taaccgcctg agatatcttt 60
tgtttccctt taaaaagatt taagggacta actgcctaag aattctttgt cttaacacat 120
tgagggtac atcctttgtg gtacaagtag aggttacatc tacttgggtt gtaatactta 180
gaacaagagc ggggtacatct ctttgggatc agttcaagtg gaggggtacat tcacttgggt 240
gttcaaagag aacaaggag ggtacatccc ttatggattt ttgctttgaa aggaatttac 300
aa 302

<210> 6011
<211> 134
<212> DNA
<213> Glycine max

<400> 6011

tgccaccag ctgcccag cgagcaggt tgcttcctcc ataagcaaca gccttctgga 60
ggaatcttct ggagggccca agtgggcctg gttgctattt gcaccccat tttactaag 120
gacacccct gcct 134

<210> 6012
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6012

agcttttgcc tcanaacgca ttgtttccaa catccaaggc tctggtaatc gattaccaga 60

agagaat ttt gaagcaaagg gtttaaaaag ggttttgaat ttgaat tttg agtcatgtaa 120
 tcgattacta gatgtttata atcgattacc agtaatgaca ctttagaaaa cactttggaa 180
 agacatgacc cttcaaaata taattgtgta attgattacc agaaatctgt aatcgattac 240
 cagtgaataa ttttagaaaa atctttttga aaagacacat ctcttcaaac cattttgaaa 300
 aggcacgaag ggcctatata tatgtgtgtc tgacttagaa aagcaagaga gagatattct 360
 aagagaacat aattgccaaa ttctctctca acaactcctg ggcaaacact tganaatcta 420
 ttgataattc at 432

<210> 6013
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6013

ngaagaggat gctntaatgg aggagaagaa agagagaagc atggagcacg aaattgaagg 60
 aataaaagag ggaaagaagt ggaactttga agtgtatctc ataagacttt cattcatcca 120
 aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc cttgagaagc 180
 tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag aagctagagt 240
 ttagctacac acacccatct aaaaactaag ctcacctoet tgagaagctt ccttgagagg 300
 ctagagctta gctacacacc cctataatag ctaagctcac ccccatgaca aaaaaacatg 360
 anaatacaaa aaaaatccta ctacaaagac tactcanaat gccctgaaat acaaggctaa 420
 aaccctatac tactagaatg gccaaaatac 450

<210> 6014
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6014

agctntaagg ctaagtcttc atgttgctca tgttgtttcc ctatctctaa cagtccatca 60
 tcaatcactt tcaagatccc ttggatttat aaaggtgcat aataatatca tggacccttc 120
 cttattataa catctectca tttttgtctc ttctctctcc aacgccctta atggaagctc 180

taatgacgac tccaatgaca cctccaacat gagcaatccc caactgccac cgcacacttc 240
 tccttctctcc tccgtccaaa aacaaagtta acacaaaagc atagtgcacat tgctaaactc 300
 accaaaccaa caaatccaca atgcatgata acaaatagaa tatattaaat ttcaaaacgc 360
 atgaacacat gaagggtggg cattaatgga gtacaaagtt gttcacaata ccataaacca 420
 aatttatctg a 431

<210> 6015
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6015

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 tttctttgta agggattaca tttgaagatg tattcattgg tgcattaaat gtgagcattt 120
 aatgcacatt ctctccatgt tgaaacgcca ctctcttttag ctgtcttgaa ccacacttca 180
 gcaaagggtca acatgttgtc gcttagaaca gttctaata caacagggtg agaccacggt 240
 gtttgagatg aagaaagatg ttgttctttt aagacttgaa tatcctctta ctttcttgga 300
 cttcgaaaaa tcttagaaaa aaaatttcaa gacatttctca gcagaataga tctcagacac 360
 aaagcattaa tgaagtctta aatgcttata atagcttaac atttgttngc ttctttctaa 420
 tctttcaaac gcatatgcaa aacaacaatt c 451

<210> 6016
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 6016

agcttgccac ccagctcgtc ctggcgagca tggttgcttc ctccagaagc aacagccttc 60
 tggaggaatc ttctggaggg cccaagtggg cctgattgct atttgcaccc ccatttttta 120
 ctaaatacac cccctgcctt tttttggtga ttcttttttc gtaaagttaac agaaacttac 180
 gaatttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240
 atcatccctt tttttgactt acggaatgtt atggaacctc actaattgtg caacgatgct 300
 tccatttgat ttccggtgtg tcacggaacc ttacggattg tgcataata ttttcttttg 360

atttccgcat gtcccgaat ttacaaattg cctaattgatg ggtgcccaagc acctcacaag 420
gaccaaacaa aag 433

<210> 6017
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6017

taactatgct agtataatta ttttgtgtca ttaattcttc tcctttttaa ctccattcgt 60
gcaactagat atatgtgcga ttcaatcctt gttcaattaa tcttgcatta cataatttaa 120
aagggttttt caagttgttt ctcaatataa ttactttgat aaatggttct aaatttatcc 180
tatataaaga aagggtgtgaa aagtttgttt ttgaaaaaga gataaagatt ttgaaaatat 240
atattcacct ccctctctaa atcaatctac atggatcaac atagttgcta tcgagttgtc 300
aaactagaat cttgaanatt tgaagggtga gtggtacatc ctatttttcg taataaatta 360
aaaagctttt tagtaaaaaa taaataa 387

<210> 6018
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6018

agcttacaaa tatgtgctat atccaagccc ataagttata tcaaatacaca tctagataag 60
ataagatacg ataagatcta attttataga ataaattagt ctgccctctt caagtccaag 120
cccaattcta gattcaagcc caatgctaga ttcaagccca atgcttcatt aattcctgaa 180
attagattaa aaacatcaaa ttggctgaat gggcccaaat aataaaaactg cctaattaat 240
tgacaattaa gaccaatcaa taattaaaat ggtgcaaaaa gggtttagaa aatagaagat 300
natgatggca catcaaaacc cccatactt agccttttgc actcctgtgc gaaatgaaac 360
atagaacaag aactaaatcc aaggatatca gagggagaca aacaaataca ttcaca 416

<210> 6019
<211> 400

<212> DNA
<213> Glycine max

<400> 6019

tctgagtga acaatgcgac tattcactat tcaattagaa tttcaacggt caaggacact 60
ggtaatcgat taccataaca ttgtgatcga ttacagcctt ttgaagatat ttggaacgac 120
gcacatttag tttgaaaact ttttcacact cattgtgcta ctggtaatct attacaacaa 180
tatggtaatc gattaccaga gagtaaaaac tctttggtaa acgctttgtc aaaaactcat 240
gtgctattca aggatatgaa aaaactttat aatacttata ttgaatgagt cttttcttca 300
ttcttgaatc ttgaggcttg agacttgaac ttgattcttg agatcttgag acctgatgct 360
tgagtctagg ctttcttctt gagtcttcca atctccttga 400

<210> 6020
<211> 355
<212> DNA
<213> Glycine max

<400> 6020

agcttgcaat gaaagatatt gtgtatgtag gagtctggtg tcaatctaga cacacaaacc 60
aaggccataa ttcaaaatag gtaagataga aatgatgata gtcattggca caaatattga 120
cttctgcaac tgctactaag cttgcaatca aagatattgt atatatagta atgaactttc 180
cattcagtaa cacaaatttg ttttatttgt acgcttaaat ctgctagatt gtctgttcaa 240
cttgaaatct caaatttcta tottacatct tttatttggc aatatgtaac aaaagatgca 300
acacataagt ttactaaatg ttacatcaga gatgggcatt agttgtttat atatt 355

<210> 6021
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6021

gggttagagg tacttaccg ttgaatactg aagacaacga tgaacgaacg atgaatcttg 60
aagaacggtc gagaatcttc gcgtaattac tcacggaaac gttacagaag cgcctcagct 120
tggattttct tcacggaact aattatcttc aacaatttgc agagagagag aagtgcctaa 180

ggggctgaac ctttttcttc ttcacttctc cccctattta tagcanaata ggggagaagc 240
 ttgccgcca gctcgcccag gcgagcaagg ttgcttctc cagaagcaac agccttctag 300
 aggaatcttc tggagggccc aagtgggctt ggttgctatt tgcacccctt ttttactaag 360
 tgcaccncc ttctatTTTT ntggtaatct ttttccgtaa cgttacgaaa ctttacgaat 420
 ttcgtaacga tacttat 437

<210> 6022
 <211> 354
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6022

agcttacagc tttgtcgagc tattctgcta ttgcacagat atgtatatct atatccaaac 60
 gcgatata ggaacatgaa atacaactta gcaggattaa ctttaagtata ataacatggt 120
 cttttacttt tatataatta gaaattatTT tgtacatcga ttaataatta cttataaata 180
 cagataaaat ataccaaaat atagatttga aaagcatttt aagaaaatac tagcttattt 240
 actaaacata tgtgagaaga tccataatta catgagaaga gtatttntca ctctcaagaa 300
 catgaagaga cggacttatt aaatagataa acaagtttta atatatctat gttg 354

<210> 6023
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6023

ntagcgaac accattgtga gcgaggaggg aatgcaacat tattttggat ttggaacacg 60
 caattgtgac caccaacgag gcatntaaa ataccaggga tgctgtttc gcatatactg 120
 ctggcgaac cagcatggct catttcgcca ctactgctgg cggcaccctg ttgctcctgc 180
 cccctctgcg tgcttagact gcagcctcta cggccctaca ctggcctact gcaatgtatt 240
 gctagtttga ctggcgaat aactgaggtt actttgcaag tgccagtggc gatttcactg 300
 ccacgtggcg cgtcgcatgc atgtttcgcc aacatgcatg gcgagttacg ttaaacacgg 360
 accctcgctt aattt 375

<210> 6024
 <211> 436
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6024

agcttcacaa tatttcagaa gtctaaacat gcactgttgc gtaatttata aagttttgta 60
 gcattccgga agtcaaaaca agcattgttg tgtaatctgt aaagtttcac aacattccga 120
 aaggaaaagc aagaatcggt acgtaatcca taaaccatag aacctgtaaa gtttcggcag 180
 gttttagaaa gaaatcgga gaataacaca aaagggggtg tatttagtaa aatgggggtg 240
 taaataacaa ttttcaaattc tggggcccttc tagaggattc tagacctttt ctttctcctt 300
 ggctaagcaa ccagcttgcc tggggcgagct gtgcggcaag cacctccacg ttntgntgaa 360
 naatgggttc tgggacttcc gtaatgcttc cgtaaaattt ctgaaaaact tgggtacgca 420
 tgtttcactt aataat 436

<210> 6025
 <211> 246
 <212> DNA
 <213> Glycine max

 <400> 6025

accattatcg actccctttt tgcacatggt ctgtagttgc atcctatcca gaaccatatt 60
 agaatagtagc tgatactgcc taacgaaagc aaccattaag tccttccaag tatggactcg 120
 ggaagggttc aagctagtgt accaggtaac aactacccca gtaagacttt cttggaagaa 180
 atgtattagc agatcctcat ctttgogtat gcccccatct tctgacaata catctttata 240
 tggttc 246

<210> 6026
 <211> 417
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6026

agctntctaa tctataaata gaagcatgtg taatacttgg tgaactttga tgaatgaaag 60

tcttatgaga cacacttcaa agttccactt ctctccctct tttattcctt caatttcgtg 120
ctcccacctt ctctctttct tttctccat taaagcatcc tcttcaagct tcttatccat 180
ggtacattct tgggtggtgaa gtccttctt ccatggctta ttccctagtg gatggtgcct 240
ccctctccc attctccatt gccttccact gcctctccat ggtggaaaat caccattgaa 300
ggacctcatt gaagctcana gatccagcct cgttagaagc tccacaagca tgcttncatc 360
aaggctccct ccaccttgga aagggattgg ccttcaatcc gaggttcttc atactct 417

<210> 6027
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6027

agcttgaacc tcacagaccc aattccaatt atcttttaca ggacttggtg tttccatgga 60
ggactgaacc accaacttgt ttgtcaagat cctcaaacca agacttggtt ggagtcatat 120
gaaatgaaca cccagagtcc aagatctatt tgtctcagtg ttcttatgag acaccattaa 180
agcctcagct gaatcataac catcttcaac tagagtagca tttccagggt ctttagatcg 240
atcttgcttg tttcctttct gtctattagg acagaatctt cgagtatggc cttctctttt 300
acagtggtaa catctaattg ttagtacatt agatccaaat cgagtttgtg acttggatct 360
tttcccttct gtcttatcat ccttcttgta ttggttcca cgaactagga gtcnntccc 420
atgtagag 428

<210> 6028
<211> 461
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6028

gactcttcgg ctggccgatt gctgaatcat aatcagctgc cggaataagt aggcaccacc 60
attcaatacc attatagaga atcaaataat atatatatca tcagaataaa attaaatatt 120
ttttattgat aggaattgta tatgagtatt aagaaattta taagacttcc gcaccatact 180
taactaagtt ataagaaaac ctattggatg cttttttttt ggtgatagga aatctgatgt 240

<210> 6031
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 6031

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taggacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaatg 120
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt tcgaaacaat taccattttc ttgaacatat cctataattc aaagaaaaac 300
 atgcaaagtc gtacgtgcac acaaaattga cccaaaatat taaactgaaa atccgacgaa 360
 actaacaaca ttaacaaatt aacacaacta acaaattaac aaaaccaaca aaactagcaa 420
 aaccaaagaa cac 433

<210> 6032
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 6032

agctttcggt ttcaattacg agcgactcga tctcctacgg gactcaatcg gacatccgag 60
 tgaaaagtta ttgtcgtttg aattttactca gagcttccgt tttaaattac gagcgtctcg 120
 atattctacg ggacacaatc ggacattcga gtcaaaagtt attgtcgttt gaatttgctt 180
 agagcttttag ttctcatttt cgagcgtctt gatataattac agggctcgat cagacatccg 240
 agttaaagc tattgctggt agagttttct cagagcattt ggtttgaatt acgagcgcct 300
 cgatataccta cgggacacaa tcggacatcc gagataaatg tattg 345

<210> 6033
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 6033

tgcatttggg attgcgaaag cccactcca tcattaggat tagtacctga catctcaaac 60
 aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatctcacc cactcaagtg 120

attttactgg aagtctatag tgcataagcc tacatthttga ccgtgggatac tact 414

<210> 6036
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6036

agcttccttt atcgatattg ccgtatgcat tacttaacat cagtataaac aagagatgtc 60
agtgatctt aggtattcca cctttccatc aagcattaat gcctthttttg gagcacatgc 120
attaatatct gattaacatg tgttcattgt attttagaa aattgtatat cattgtacat 180
tgtatcaata tttttctcaa gattctctag atactthttct caagacatca cgattgacaa 240
gtcacaagta tacacaattt ataaaaaaaaa tggtgaaagg catcggagga aaccgaanaa 300
gttacctaata agatggacat tntatacagt cttcaggtct aggagttggt ggcaactcgc 360
aatataaaaa acctgttaata gtcaaagcat atgcagccac ttttcccaga agtagcaaaa 420
cattttag 429

<210> 6037
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6037

ngaacttgcc tgctaagcga gaggcgccac tgagactgga ttacacgctg agcgagctgt 60
ccaattcttc caactcttct tcaattcttg catcaatatt cctctgaagc actagaattc 120
ttcttctttt gacttctgct aataaaaaat tgcacagatg ttaattctct ccttatttctg 180
ttctcaacaa tagtaaagtg aagaaatttc aatcattatt agtcgaaact gactatcaag 240
ttaactcaga tttcgcagtt atcaactgct ccaaattaaa acatttggtt gtcctcatgc 300
ataagacaag ttctgagtgt gccggcacat gagataacta tgaatccatt aaacatctgt 360
ttgatctcgt gaggagcctg acgaatcaca tggagatgaa a 401

<210> 6038
<211> 385

<212> DNA
<213> Glycine max

<400> 6038

agcttagaaa tgagaattat taatagttac ttatgggatac aatgaactgc gtgataaagt 60
gaacaacaaa gtttgatgcc caaaaacaca tgtatactta taactaagggt tgaaatagaa 120
tatgtgataa tgctaataaa ctttaaataga acgacaaaga cgcgtttatt ttattttgta 180
gcgtgataca ttttcttaat ttagacgtac cacagcagtg aattatttat atgctaaata 240
ccaatcgtat tgттаатааg аатаатсатg агассgатag ttattagata ttaaccagcg 300
cgcccaacat атааgattca таааатgтаа tagcatgtcc ctcaagagag cactgtagct 360
aacacctgaa gagctatacc tttcc 385

<210> 6039
<211> 360
<212> DNA
<213> Glycine max

<400> 6039

agcttatagc cacaagccta gtttgctatt ataaaaacct acctaataca aacatcaaag 60
tcagcaatat gattgtgtga aaataaatag ctgcatagcc agccattatg tttgcttaac 120
actagagtgt tttatatatg tagtagtaca ttagtactga actttgccat gtatgaacta 180
ttaatgaagc atatacatca gtataactac aacatatttt aattatagca tgctatggtt 240
aattacttca ttattgtttt ttttttatct atatcgaaga ggttacaaca attcagataa 300
cttacaaaac тааттааgсg агаттссctc агттаттatt gtttatttca gcctaccttc 360

<210> 6040
<211> 156
<212> DNA
<213> Glycine max

<400> 6040

tatttgatgat tattgagatt tttagaagga gctaatagtg aatattcttc acctttattt 60
ttaaattaaa tagaagccaa aaacaattaa attaataatt atgttgaaac tcaactggaaa 120
ataattatta agtaaagata acccaactta aaactc 156

<210> 6041
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 6041

agctttgaga taattcaaac gacattaaat tttttcttgg atctccgatt gtgtcctgca 60
 gtatatcgac atgcttgaaa ttaaagcag acgctatgag caaatcaaa cgacaataat 120
 ttttaattcg gatgtccgat tgagtcgtgt aatatatcga gacgctcgaa actgaaaaca 180
 gaagctctgt gcaaattcaa acgacaataa ctttttactc ggatgttcga ttgtgtcccg 240
 tggatatcga agacgctcgt aactgagaac atatgctcgt agcaaattca aatgacacat 300
 aactttaact cagatgccga ttgattcccg taatatatcg agacactcaa aa 352

<210> 6042
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 6042

tggatttcct gttgtatgga atctttcctt cctaagatgg agccaaacc agtccccctc 60
 attaagaact agctcatttc ttctctatt gcccttaatt gaatacacct ttgtttgggt 120
 ctctatttgg gtcttaaccc tctcatgcaa cttctttaca aactctgacc tagattcccc 180
 ttctttatgt ataaaagaag tgtcaagtgg gaggggaatg atgtctaagg gtgttaaggg 240
 attgaacca tagacaacct caaaagggga ttgcttggtg gttctatgaa cccctctatt 300
 gaggcaaatt ctacatgagg aagatactca tcccaagact tatgggtgcc ttttagaaga 360
 gcccttataa gagggatga agacctattc acta 394

<210> 6043
 <211> 222
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6043

agcttgctaa cccatggaag ctctaatat ctccacact ntntggggtg ggccattctt 60
 ggatggcctt gattttctca gggtcactt ggacccatt tcttccaact acaaaaccta 120

agaagactat attatctaca caaaagggtac acttctctat atttgcatag aggggtgtttt 180
 tggtggatcg agtggcctca aaataattaa gaaggggggg gg 222

<210> 6044
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 6044

tatgaactag atctgttaag atcgataact atattcaatt tataactatt attatttttac 60
 atattttttta tttacttatt ttatacaaaa agcaactgat gtgaaactaa taagaactta 120
 attatatgaa ttttaataaca taaaatacat cattaaatct tatacattaa ttgcattttt 180
 gtaataaatt aaataatata ttaatggaag aaaagttggt cgagcaaaaag ttttaaataca 240
 atcactcctt tcatattaaa gtttcaactc gtgtagggtt gggacaggta tatgtattgg 300
 ttttatcgca tgaatgggaa tggatactat tatacccatc ctacacatgc cca 353

<210> 6045
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6045

agctntgagc caaaatcctg actcaccata taccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaagaa aanaggagag aaggaaaatt tccaatcaaa ggaaaaaagg 120
 agaggaaaagg aaattcccaa tcaaagagtg ggagaaagca aaaagaaaag aaagaaaatt 180
 cccaatcaaa gaatgggaga aagaaaaaga gaaggagaag aaggaaggaa agctcctgat 240
 caaggatcga aagaaaacag aagatatgtg cagaggggat ctctggacca gacaatatct 300
 aaacaaatac agaattgtca ccaaatgaac aaaagaaaga anaggaaacc ataacctaen 360
 agtgggtcttc tccctttg 378

<210> 6046
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 6046

gcttagcgcg agtttggcgt tgagcgaata ttcacttact cgcgctaagc gcgacatcga 60
ggtaagtgag cccttttttaa gcctggaata gcagaaaaga aaggggcact gggagataga 120
aaagagagcg ctgaatagcc ataagagctt caagagtga atacacagag gcaaagaaca 180
gagcaaagaa gccaaacttt gatcttttag gaagagtttt gagtgattgt gagattccta 240
gaggtggagg agacatcccc actcctttgt aagcaagcaa tttctcttaa ttcctcttct 300
tcagtgtaaa aggagcttcc ttgctatgga aggctaaacc ctgagttggg gattcttgct 360
gagtaattga tgtaaactct ntccctatct aattaagggt gttntatgca ttcattgttt 420
ctatcagtac tatatta 437

<210> 6047

<211> 546

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6047

aggctttgta ccatcattac ctgcactata tatactcaag cccgcttcta caccctacct 60
atattgtgga gcccttaata ccatgcccac aaataatgaa accttaatct aatatgtaca 120
aagattagcg ggctcactact taaccatgg gcctgaaatc taccctaagg ctcataagaa 180
ccctatggcc ttctcttgca tctctagccc aatcttcttg gagtcttcta tcaaattccc 240
ttgtggggta agaatgcac attccccccc ccccttgaaa aggatttgac ctcaaattccc 300
aagggtcttg aaactctggg cttttttcct caacacctgt aaaaagaaca aaaacatatg 360
tattagtggg gtttggtatg tttaaagtaan ggaaggctctg aaaaccatt tcctgggcaa 420
tcttccatga aggaacatgg ntntcacca actcaatgag tggtgccaca gtatagaana 480
atatgggaca aaccttcttg taaaagttgt aagcatggaa gcccacatt tttctacact 540
ttgtgn 546

<210> 6048

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6048

gaattacatt atcctgaagc atccattggt gaaagataca ttgcagaaaa agatatggaa 60
ttntgttttag agtacattga aaatgccaaa ccagataggc tttcggagtc tcgatatgat 120
gagtgggagg caagggtttg cgagggtctac atgttataac tttgggtcta aaggaattac 180
aacaagctta tttgtatata ctaaataata gtaatgaagt tctgtcatat atagttcatt 240
atgaagcttt tgtagggaa agtaaaccat aaatgaccaa gaatatggtg ttgaaagaac 300
ataataagac tttcctaaat tggtttaaag atacaatctt tgggtggtgat aaattggttt 360
aaagatacaa tcttttgcaa tgataat 387

<210> 6049

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6049

gctgctaaga gcaacaaata actacaatat gagcaggttt cttggtcaag gtggctatgg 60
cacagtgtac aagggaatgt taccagatgg aaccatagtt gcagttaaaa agtcaaaaga 120
gattgaaagg aaccatagtt ntataatact agtacttaat taatgcacat gtacattaaa 180
gtctaattga ataacattat ttgaatagtc ttgttggcca tactgattag ttgtgttgta 240
ttatacatat tagctgggga ttccaatgct tttcgtcctt caaatcaact atctttttct 300
tctttgttcc cattattntt ttcttataaa atctaagaag aagaatattt tactttttaa 360
tactttcaag acatattgct tacagcagca acatacctac acaactggtg ttgggatcac 420
cattacgtgt tctgttgtgt ctt 443

<210> 6050

<211> 447

<212> DNA

<213> Glycine max

<400> 6050

agcttgtgat tgattgtgga acaagaaatg cgtgaattaa ttagtataaaa attgtgataa 60
tttaactaat tgagttcgaa ttttggatat ataattattt taaagaaaaa aaatcgacta 120
taataatctt acatgactta agtagattta tttttaagaa aagatacatg taatctttac 180

tgtaaaaata tataaataat gtattccagt caatttgatc agactaatta aaaaaaaaaa 240
 agattttctga tcaaattata aattacaatc acgattagga tcataaaaaa ttatgtcacg 300
 cgaagatatt cctattaatt tcatcctcag aaatatacat atgctgtaaa ggcaaaagaa 360
 atacattatg gaaaagaatg aagcattatt ctaatgaaca taacaagaac aaagtaaaat 420
 cttgcattaa tgatgatatt gattatg 447

<210> 6051
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6051

cctcacacta taggacagct cataattcat agagtaatac accctataag caagcgctac 60
 aaaatttcag attactcaaa ctttatccaa aataggaaaa aacctcacga cagcatagct 120
 caaccaaact cctctttatc aagtaaagac caaataaaaa attcgcaata gtgataataa 180
 taacaataac taatattaat atcaattaat aagataaata cattacatca ataaaagaaa 240
 gaaagaaatc aagtagcaat agcgtgatga gctacttaac acgttctgaa ctanagcaga 300
 anataaaaaat tattatttat acaaagaata acctcaacaa aaggaagatt tgagacatgg 360
 caaaaaccag agaggaacaa cttgcatctt gaacctanag actcattctt ttcttcattt 420
 cttcatctca aagcaagttc att 443

<210> 6052
 <211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6052

atttggctctg tgcactatat ttgacattgt ggcattgaga gattangcct aatacttaga 60
 aatagtccaa aaggtgattg ttatctttta taaaattgac ttatatattat ttaaaaaac 120
 attgtttatc atcataaaaa taaaatttac taacttagat cttaaggagt ttataacaaa 180
 taacgcacag tatttaacta actcacttaa attccttgat gttgaattta agtatagtcg 240
 ataataataa attttagata acttttctat tactaataga tgttaaaata attaaataat 300

attgaattta atattatact taaattttat cttctttttt attaaaccat cttgtaataa 360
 ttatatattg tcttttaaaaa agntactana ttaatcttat ttttatctac tcttatta 418

<210> 6053
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 6053

acccgtcata tgtggtacta ggtggcgatc gggcgatggc gcataatcaac tctaccactt 60
 ccacaaatca aacatgaacc caccatcccc agttgccac ctgtgactga gctcacgtac 120
 tcctacgtag cccttatcct cgctcctctc agcaccgggt gccattaac cactccaagc 180
 ttccacaata tccaagcaat tcaattccaa ttaccatgaa ctaccctaaa ccaagaaaac 240
 agggcagagg cagaaaactc tgcccaaac acattcacac attacagctt tccttactca 300
 tatatcccag caacattctc ttcgcttcga atcgtaacc atagaatcaa cttgataatt 360
 atactggagg ttcctagtac ataagtctac atcttgacc 399

<210> 6054
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6054

agcttgngag cagtctaata gattggctnt gaacttgatg agatttacta tagccgcaaa 60
 tgtgaagcta tgtatgcca aaataaataa tggaaaggaa ttcataaat tggtaaata 120
 ttacttgcaa tttgatatta ctgacaagcc aattgtggag aatttatcaa gtgagctaac 180
 aaacttggtc ttaaccaatt catgatcatc tgacatagat ggttaatctg gaagcaaagt 240
 tgaattccat ggagatggaa gtgagtgagt tctttctagt acaatttatt ttgaattctc 300
 ttccaactga atttggccaa tttcaagtga aatataacac tcttatggaa aaatggaatt 360
 t 361

<210> 6055
 <211> 479
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6055

tctctntggt ntccttcttc ttctttgtgc caaaagctct ccaaagtnt ctggttntct 60
aaaccttgaa aacttggtgt attcattctt ttcattctct ctccttttgc caaaaagaat 120
tcgccaagga ctaaccttct gaattctttt tgtgtctctc ttctcccttt tctaaaagaa 180
caaaggacta accgcctgaa ttattttgtg tctcccttct ccttgtcaa agaattcaaa 240
atgacacagt ctgataattc ttttgattct tccttttccc atatacaaaa gacttcaaag 300
gactaaccgc ctgagaattc ttttgtatcc ccattcacia agtatcaaag gtttaaccgc 360
ctgagatctt tgtcttaaca cattggaggg tacatccttt gtggtacaag tagagggtac 420
atctacttgg gtttgactga gaacaagaaa ggtacatct cttgtggatc agttctagt 479

<210> 6056

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6056

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tgaaatacag agacctcccc tatctggcgc gtcagacctt gcctgtaaac caaaatcata 120
gtcgccctgg acaacctaac caaagaaatc cggacccac ttgtctaggc ttgggggcct 180
tgacagcttg acaaaactcc aaatctcaca cctgtcaatc ttaccactct taacactgga 240
caataatttt ccatgcttgg gggctcgaca aactcacgac cctnctactt gtcaaggcta 300
ctacctcgga catcagacaa tctccattgt gcactatcta gggtcacaaa aatacatgtg 360
tcaaaaaata cacgtgtcaa gctatgtgga ttatgagcac acat 404

<210> 6057

<211> 113

<212> DNA

<213> Glycine max

<400> 6057

tcatacaact catatgcgtc cgcttcatag agtgtaatac taaatctatg aacaatcgcc 60

atatcatgtg agtctactac tatatcattc ctatctaata aaagggagac ctg 113

<210> 6058
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 6058

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 cagttggggtt actaggttaa ccaaggtgtc tagtttacct tcaagcttct tagtttcaga 180
 tgatgcagat gagtttgtgg ctacctcatg cactcctcta attactatag cattattttt 240
 ggcgctaaac tattggggagt tggaagccat cttctcaatt aaattcctag cttcagcagg 300
 ggtcatgtct ccaaggggtc caccactggc agcatctatc atacttctct ccatgttact 360
 gagtccttca taaaaatatt ga 382

<210> 6059
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6059

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 ncaaaggagc acaaaccaca gacccttgcg acaggtacag atttctgggtt caaggccagt 120
 tggggtacca agttaaccaa tgcattcagt ttgccttcaa gcttcttacg ttcagatgat 180
 gcagctgagt ttgtagctac ctcatgcact cctctaata ga ctatagcatc atttcttgcg 240
 ctacactgat gggagttgga agccatcttc tcaattaaat gtctgggttc agcaggagtc 300
 atgtcttcaa gggctacacc actggcagca tctatcatac atctctccat attactgagt 360
 ccttcat 367

<210> 6060
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 6060

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ttttaaaatt tagaaaacaa cattaaaccc aacaaataaa aaaaaataat catatgttca 120
tatataatta tttttaaaaa aaatatataa atgatagtta agataaacat gacaataaag 180
caccacgaga ttgtatggtta tttcttattc ttgttcctta acatcgtctc catcatcccg 240
tcccttattc tagacgacga tactaaacaa atatcgaaaa gaaaaaatga atattaataa 300
caataatagt taccatagat acttataaag tataattgta atttgtgtaga acttattaga 360
tgagaaccaa aactaatatg attgaaatat ataatatatg ttataaaata aca 413

<210> 6061

<211> 391

<212> DNA

<213> Glycine max

<400> 6061

cgtatgggta aagtctcatg aatgtcacgt gctcatgcta caattgttag gcgtggctat 60
acgagacatc ttgcccaaca tagtcatgat aacgataact cgcctatgct ttctcttaca 120
tgctatatgt agcaaagcca ttgatccaat aatgtttgat gagttggaaa atgacgccga 180
aattatactg tgccagtcgg agatgtatct tccccctggg ttctttgacg tcatgatcca 240
cttgattgtg catctagtta gagaaatcaa ctgttgccga cctgtttatc tatggcggat 300
gtaccacact gagcgatata tgaagatctt attaggggtg acaaagaatc tatatcgtcc 360
acaagcatct attgttgaga ggtacattgc a 391

<210> 6062

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6062

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anattggatc atcaaatata taaagatttg gcatgcatgt ttactctttc attntacttc 120
tttcaaggct ttgtatagga atgtgaaaag cacgtgatgt ccaacttgaa ttgaacaatg 180
ctgcaatctg tcaatttttag attaatctca tatgttttgt tgtagtgtgt tagtgtctta 240

tcatggtgct ttaatgcttt ataggctaaa caatgaacaa gtaatgggtt atcaaaaaga 300
gacttgtggg ttgacaattg gagaaact 328

<210> 6063
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6063

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aataaaatga tctcttacct ctctctagat cttctctaaa ttccttacgg catcagaatc 120
tattcttagat ccaataaaaa aggtaaccta ccatattatc catgcactga acccaaaagt 180
gatgggcatg acgggtgtat tgtgaaaaac ccaagtccca tatcggctag agatagtgcc 240
aagatagaaa gtataagggg cagacaacct ttgccctatg atctaacttt taagggttaag 300
ttagaccaca accttgtgaa ctatattgtt gcagatgatt gcagatcatt 350

<210> 6064
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6064

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cgcaagaagt gaaggacaac gcctccaagg agaacaaggc gccgctcatc gacgtcacgc 120
agttcgggta ctttaagggt ctcggaagg gcgttttgcc gcagaaccag cccgttgtgg 180
tcaaggccaa gcttatttcc aagatcgctg agaagaagat caaagaggct ggcggcgcgcg 240
ttgttctcac cgcttgaatt tgacgggtatc acttttttga acgatttang ttttgttctg 300
atacgttttg ttttggatta tgttgntgnt tagtctctgc tatatttcan gagtaaattg 360
aaggtttatt attttaattt gcgcgaataa ctatgccagc ctgatgacat tagaatcta 419

<210> 6065
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6065

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 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcgct tctccgggag cgacgcgtcc agtcatgga cgacgagtat actgatttcc 180
 acgaggaaat aaggcgctga cgggtggacat cactggttac tcccatggcc aagttcgatc 240
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgagatcctg ggtaaggggt cagtggatcc ccgttgatgc cg 342

<210> 6066
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6066

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 cgtcagccac tacattggct gtgccgggggt ggcaactaag ctcaaaatca taatctttaa 120
 gaaactctaa ccatctcttt tgacgcatgt tcagctcttt ctgactaaac aagtacttaa 180
 ggctcttatg atcactaaac acctcaaact tggagccaaa caggtaatgc ctccacatct 240
 taagggcaaa aactacagca gctaactcca agtcgtgagt gggataattc ctctcatgag 300
 tcttttagttg tctagaagca taggctatta cttggccatt atgcatcaac actcctccta 360
 taccatctt tgatgcatca caatacacct canatggttc cctcgggtta ggaaaaacta 420
 gcactagagc ggtcgtcaat ctttccttaa gggtcgtgaa actatgctca cactaggtgt 480
 cccacccat 489

<210> 6067
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 6067

tgccccaaga gactcagcat aaggatgcac agaccatagt tgcgtatgta gaacaattgt 60
 atgaccaagt gaatgtgcaa attgcaaaga agaattgatag ctatgccttg cagcccaaa 120

agaaaaggaa ggaagtggta cttgaacccg gagatgatct tggacatttg aggacaaatg 180
 ttttccaaga aggaggggaat gat 203

<210> 6068
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 6068

gagcggctcg atatattacg agactcaatc ggacattcga gttaaacggtt attattgttt 60
 gaatttgctc acagcttgtg tattcaattg ttagtgtctc aatatgttac gggacttaat 120
 cggacatcgg agctaaaagt tattgtcgat ggcattggct acgagcttac attgtcaatt 180
 acgagcgtct cgatatatta cgggactcaa tccaccctcc gaggtaaaag ttattagtcg 240
 ttgcattcct ctacgagctt gcgttttcca ttacgagcgt cttgatatat tactggac 298

<210> 6069
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6069

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 ctgtgtttta aaatttgcag atacgaaaaa ccaacttgca gacatcttca caaaaccact 120
 aaccaaagat tctttctaca ccattagaag ataattagga cttctagatg caagtgactt 180
 agacaaatga tttatgtttt gatgacttat ttgttattta tgcacatatg cttctattat 240
 aatgtgagga taatttatta tcttgtttga tttctataag cttctctctt ttcttgttta 300
 attattatat tttttttaac ccttgatatt ggctatgttn ttatgacatt tgaataactta 360
 gtatttcttt tattatttga ttagtatgac tggacatgat gattatattt acttgctttt 420
 ggggtgttatg gtatgaagtt taaacttatt tt 452

<210> 6070
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6070

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tagatgaaga tgaatccgtg gccacatcat ggactcctct aaggacaata gcatcatttc 60
ttgcactgaa ttgttgggag ttggaagcca tcttctcaat caaatccta gcctcagcag 120
gggtcatatc accaagagct ccaccattga cagcatcaat catactctc tccatggtgc 180
taagtccctc atagaaatat tgaagaagga gttgctcaga aatctggtgg tgaggacagc 240
ttgcacacaa tttcttgaat cttccacaat actcatacaa gctctctcca ctaagttgcc 300
tgatgcctga aatgtctttt ttgatggcag tggccttaga tgtaggggaag aatttctcca 360
agaacaccct cttaagggtca tcccagctga naatggacct gngagcaagg tagtatatcc 420
aatcttttgt cacttccttc aaagaatgan gaacagcctt tagaaagata tgatcttctt 480
ggacatc 487
```

<210> 6071
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6071

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agcttgacaa gaggggtctgt ntaactaaca ataataataa taactttatt ttatcaaatc 60
ttatcttatc cagattttat tccatccaga ttttattccg tctagatttt atttcgtcca 120
gattttatct tatccatctt atcttatctt gtccagattt tattttatct cgtttatggg 180
cttggaacta aaatagattt gtaagctttg tggctaagaa cctcatccat acatttttta 240
atagtatgct cttttttattt tcttttgata tacttttgtt ttttaacgact tgaattcaat 300
atgattttgt ttatcaatta tttttggatt tgtacattac ttatatgaaa ttttataagt 360
ttattttttt agttagattt cactaggttt taaaataata aattaattaa aggcgtcttt 420
aaacaaactt ttaaat 436
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<210> 6072
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 6072

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 ctgctaaagg attgcttgta actagcatgc actgggtgcat gtgcgcatca tatgctttgg 120
 tttggctctgt gaaatgaaat tatggatgag ccatgttgggt tctctgggtt aggaagtgtc 180
 aaatgaaatt tgctagtagt tgtctgctca ggtgttggag cttttatgca ggctttggag 240
 caatttctgc tagcaatttc ctttgcattc atacaatttt catgacagta aggaactatt 300
 gatatggact aggaccactg ttaaatctta tagcagtttg tagagtttga aaaataatca 360
 catgatttaa tgcctgtgtt cttctcttct tcttataaac ttattataaa tttacacatt 420
 gttttggagc tgga 434

<210> 6073
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6073

taaaacctat gaagaacaga cactcctgaa ttagacacac aaaaactggc atgtgtgttc 60
 tagctagttt ttaaaagata gtagttgctt ttattttcta accttcgcag atttattcat 120
 tttaaaatag gtcgtgggta aatatgtttt gcatgtaatg aactaacgtt gaagttgggt 180
 cagagtgaga ggaatagtca aataaggagg ccgagtattg gagtgtgaat tcagtgcatt 240
 gagagagaaa agattaacct tatgatagtt tgcagcgaaa gaaaaatgaa agagtgaat 300
 aaacaatata atgatcgatg agatttatat ttttacattt ttttttagtt canaactttt 360
 atctcaattt agtttcattt tatttcattc catctcactg 400

<210> 6074
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6074

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 gaaatacaga aaggaagggg aacagagaag aacagagaga tcaaagaagc tgtgcactgc 120
 acttctgtta ttattattcc agcctgtcta aaatgcaaca gccctacttt atttataggc 180

agctacccga caactaagaa ataacagtag ctgactaact aactgacatc cttttctttt 240
acatatcagt ctccctttcgc ttataacagc tcatcatgga gctgatttca gtaaataata 300
caagcagttt tctggaattt aatcgctagt tcttaacttc atttatgggc cttttcatca 360
atatttgcag aaattggctt caaaggatct ctcaagaatg gctgagccaa taaaggagct 420
agatattctg gtgagtcagg ttcatttcat tagcttgggt cttatanttt agntcttggt 480
tttctaa 487

<210> 6075
<211> 404
<212> DNA
<213> Glycine max

<400> 6075

agcttcagaa ttcaatttcg agcgtctcaa tagattacgg gactcaatca gacatccgag 60
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt cgaatttgct 180
gagagcttca acattcaatt tcgagcgtct cgatgtttta tgggacttaa tcagacatcc 240
gagtaaaaag ttattgccgt ttgaatttgc tgagagcttc aacattcaat ttcgagcatc 300
tcgatatatt acgggactca atcagacatc cgagtaaaaa gttatcgctg tttgaatttg 360
tcagagcttc aacattcatt tggagcgata catatatacg gact 404

<210> 6076
<211> 310
<212> DNA
<213> Glycine max

<400> 6076

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tgtgtcggtc agaagaacat tagaccgctt cggcaaagaa acatgattca ccgatattga 120
cagagaaaaa tgctagccct attcggcaat gaaagatgac cgatcgaggt ctaaaaaaga 180
agcatgaccg gattacgccg atcgaacatt ctctaataga tatcctgcaa gtattattca 240
gggattgaat ggagaaaaca gtagccggca tctgtagtaa acagggcgtga ctgatatttt 300
tcagccaaca 310

<210> 6077
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6077

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 tttttcatta tagtaattat agcattaaac atttttgtgt tatttataat agaattgtac 120
 actcaaagta aaagtgattc tatctatcta tccatccatt tatatataat ctgattttga 180
 aaaataacac tttctaagac gtttctttaa aaaaacgttt atgaaagtga acttttctaag 240
 atggttcttc agaaaaccgt tttagaaagt ctactttcta agataatttt ttcagaagta 300
 cactntataa gacgtttctt tagaaaatca tgtttcagaa aactgtctta gaaagtagag 360
 tttctaagat ggttntttca taaaactatc ttagtaagac tac 403

<210> 6078
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6078

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 ttgtcctttn tcatagaagg gcactttatt ccttggtttg acttggtttc tacatttcac 120
 ttgatactac aggtagttat gatatcttcg ctggccatgg ttatgtcatt tgtaataaat 180
 gaactgatgt atattgatat tctcagcagc aacttatagc ccttggaaca ttcgtgatct 240
 ctaaccagaa ttcagaaata aaaatgatta tattctactt taaaatgtgc taactgtctt 300
 ctgtttgaag tatggntnta tttctgactc tctca 335

<210> 6079
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6079

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aacaaacttt taacccccctt ctaaagata ggctcagaat gcaaaaaaag aagcatcaat 120
 caatttaaca atgttcttta aacatgcaag acaaaattga ttgtaataac ataaatgaga 180
 taagggaaga gagaaatgca aaatcgattt atactggttc gaccacttcc cgtgcctaca 240
 tccagtcctg aagcaaccca cttgagattt tccactatct ctgtaaatcc tttatagact 300
 ttgaacacac cttgggatcc ctcacccttg tgttgaaaga ttctccaaga gacaaccctg 360
 ctcttgatta caattgtcat aatcca 386

<210> 6080
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 6080

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 ctgcgttaag cccaacatct tcaactataag ttgcacctta agtagtgggc ttagtgtgga 120
 tgatgcacta agcgtcactt cctctctgtg aaaatttatt atagctacac taagcgcgcc 180
 atcctgcgct aaaccccaga ttcattctgt aagttgagct ttcaagctgg gcttagtggg 240
 aaaggatgca ctaagcacca acatcattat gttttgaaat cattaaaagt gcgcttagcg 300
 caggtagtgg cgctaagcct gaatcactct ctataagttg aagcctgggt gcacgctaag 360
 ccaaactttg taggctaagc gcattttgca ggaccaatca gagctactat catc 414

<210> 6081
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 6081

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 atgggataat ttcttcattt ggctttgatg aaaaccccat ggatcaatgc atataccaca 120
 aggttagtgg gagtaaaata tgctttcttg gtttatatgt agatgatatt ttacttgcag 180
 ccaatgatcg gggtttgcta catgaggtga aacaatttct ctctaagaat tttgacatga 240
 aggatatggg tgatgcatct tatgtcatcg gcattaagat tcatagagat agatctcgag 300
 gtattttggg tctatcacag gaaacctata ttaacaaaat tctagagaga tttcgatga 360

a

361

<210> 6082
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 6082

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 acacacatcc cctataatag ctaagctcac ccccatgcc aatacatga aaatataaaa 180
 aaagtcccta tttaaagac tactcaaaat gccctgaaat acaaggctaa aaccctatac 240
 tactagaatg gccaaaatac aaggcccaaa agaaggaaaa accaattcta acatttacia 300
 agaagaatgg atccaacctt gacccatggg ctcaaaaatc taccctaagg ttcattgagaa 360
 ccctatggcc ttcttttagta gctctagccc aagcctcttg gagtcttcta tccaatac 418

<210> 6083
 <211> 123
 <212> DNA
 <213> Glycine max

<400> 6083

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 taactgatgt tctcggatac acattattta caaatttgcc accatgttta tgcttacatc 120
 cgc 123

<210> 6084
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6084

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 ctgaaatgcg aagggccaca ggtgctagta ttcgcatttt ttcaaaggaa cagattaaat 120
 acatttccca aaatgaagaa gttgtacagg taactttcag tgtaccttga gaaagagcaa 180

gctatgtttt ttcattggct tatccaaact ttgtatccta ctattcagct ctagtttcaa 240
tcctaggatt atgaatatgc attatgaatt ntgtaaaatt ttacaatttg tgatttttac 300

<210> 6085
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6085

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atatgtccaa agtatacttt ctttgcgaca aatggattcc cttagaggaa cgcgcgattt 120
ccaggccaag gaagtacttt aagtttccaa gatccttgat cctaaaagct tgatcaagca 180
atgtgagcat ctctgtatt tcagtgttgc tgttgctgt taaaataatg tcgtccacat 240
atactaagag tatcgtggtg actgaaccat taaagcggag aanaagggaa tggctctgagt 300
gagactgttg gaacccatgc attggtagga taccgatag cttcacgaac cattgac 357

<210> 6086
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6086

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aagtccatgc aaaaatatct gagttcattt ggtttttggg aaagtccttc attgtttttc 120
atttctaaat gttttcaaaa gaaatccttt tgttgtcttc tgatccaaaa ataagtttca 180
aaaatactag ttgttgattt tttccaaagg atgttacatt caagacaaaa aaaatttaag 240
tccccaaaag agttataatc tataactata ctaatagaat ataaaagcac gcacaaatta 300
gtcaaaaataa actcgtgtaa gtttttcaaa aaattcaaaa caagntcaaa tcatgggtga 360
agagctcaat ctcttgacg atcat 385

<210> 6087
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6087

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cgcttgatgc ttgatccctt gattacggac ctatgcaact gaagctgatg tgaacatgat   60
taangataca ttnaattaat atatgaacat tgactccctt attcatacat atgcgagggg  120
cagaggggtga tacangtctg cttaatctta attgactcca cacaagtctt aagggcttct  180
acatctggag cattgaatac ctcatgtctt gctaaccatt taatcctctc aatggagata  240
tgctctaatac ttagatgacg ctcatagagg aagtctcatt aataatacac cgtttacact  300
agttcgaacg tgcgttacac tattaaaggg cttacttttg taaccactag tagacgagcc  360
gtgatacatt gatccacttc cagcacactt cgatcttcaa tattacaagt gactctcaag  420
ctgtgtcttt agaatggaag gacatccata tggaacatac tggaataaca agagagggtca  480
agaacacttg gcacataata agtcgttcta atatgagata gagtattatt taa          533
```

<210> 6088
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6088

```
agctttctata gaaggttcgt tcctaatttc tctacaattg catcacctct caatgagctg   60
gtgaagaaga atgtggcatt tacctgnngt gaaaaacaag agcaagcctt tgctttgctc  120
aaagaaaagc ttactaaggc acctgttcta gctcttcctg actttttctaa aacttttgag  180
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct  240
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa  300
gagctttatg ccttaataag agccctcaa acttggaac attatcctct gttcaaagaa  360
tttgtcattc atagtgatca tcaatcac          388
```

<210> 6089
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6089

```
agaaagaggg agagaaagag agaggcgga gcacgaaatt gaaggaagaa aaaggagag   60
```

aagttgaact ttgagttgtg tctcacaaga ctctcattca tcaaagttac aacaagtgtt 120
acacatgctt ctatttatag actaggtagc ttccttgaga agctttcttg agaaaacttc 180
cttgagaagc ttctttgaga aaacttcctt gagaagctag agcttagcta cacacacccc 240
tctcataact aagctcacct ccttgagaag ctcccttaag aagattccta aagaagctag 300
agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg agaagctaga 360
acttagctgc acacccccta taatagctaa gctcaccccc atgacacana aaacatgaaa 420
taccaaaaa 429

<210> 6090
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6090

ctgcagcttg atttanatat tatggtgtgc gcttggtgta acatggtatg ttgctactg 60
atttttaatt ctttgaccct ttgaatgacc aaattggctt tcatgtctt catgagactt 120
gtagagaatt ttatccttta cattcaagca ctggtatcat gttatttgga ccattacaac 180
ataatcaatc cttaaagcat tgcagttttg ttatattgtg aggacaaact gacatctcta 240
tcttcatggc cagtttcttc caagatccaa gccttatttg cccatgactt ctccataaaa 300
gatatatata tctttctctt agctttctac aaccactgag atcatcccaa attcactttt 360
gtagctcaag tagttttcaa attattgcac acatatgaaa ctgtcaaggc aaaccagcgt 420
ctttaacttc aggctcagtt ntgtccatga tc 452

<210> 6091
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6091

tttagtaatg atccaactaac ctagaattaa aagaacttaa ttccattaac ctagggaatt 60
aaaagaactt aatggctgag tgtaattgaa attgtggcaa ccaaaagtca cccccaacag 120
ccatcaagtc agccaccatt tggctctcta aaaggcttat gcctaggttg ccaattaggc 180

ccttattaca acttgaacta aaccaaacta aagccctttt agttgattga cccaaaacat 240
 atttttgatc agccaacttt acaaggattg ggccattatt tagaanaact aaacactcta 300
 aaattgagac aaagtgggtgc catttagtcc tcttccattt gggccatgat acaactcaca 360
 accttggact nttctccttg aaacttgngc ttgtattcaa atagtatgga caacac 416

<210> 6092
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6092

agcttctgtg agacacatgt tntataatcc gtatgatgtt aaatggttta aggtgaaaat 60
 atattaccct gtccggattc tttaaactat acttggatgg tagagaagtt tattcgctga 120
 tacctaata ga ttttttcat gtgggtgggtg attgcagcct gtcgagcttt ataccaaacy 180
 tgggtcttcgt ggtcgaataa aagaacctgt tgggtacacat ggtatgttgg ttgttagaaa 240
 cctttgccat caattttact aattaacatt ctgacagcta gttatttttag ggagaaaaca 300
 gattatatgt tgcttgggtca aagatttaca tgtgcattcc atgattctta tagtgaccca 360
 ttgggttgag ctgttttctg caatttcctg cttgttttgc tatcaatgtt caaatatgtg 420
 tggngtatat gatattctga tcatattcta tttta 454

<210> 6093
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6093

atattgtata tcatatcata taaatatgat taaacatgta ggaaaagata ttaaaactaa 60
 aaagataacc tacgacgtcc cctcctccca cactgtcctc tgccactcaa acattgcacc 120
 acaaggtcac aatcacgtgt ctttgtcctt cttcagaaaag aatataatgt tcattttttaa 180
 catttcttac atattattta tttttgctca gaacattntt taaacatgag aatactttcc 240
 ttttttagtgt acattcagat aataattata atatatgaaa gagcagcagg ctagatctag 300
 aacaacgtgc acacattcct cgggtccagca catagcatat ttcagtgttt ccactgtcca 360

gccggagacg aatcatgtga cttaacaaac atccaaagta gagaagtgtc tatagcaatt 420
aataatgtgc aaccgactca gtgtggatca acaatatcaa tct 463

<210> 6094
<211> 421
<212> DNA
<213> Glycine max

<400> 6094

acttgagtaa cacacttgta gtgttcaaaa ttctagaatt tgatattaat tatgtttaag 60
aaaatatgta tctaaaatat ttaaataaac tcaacatgaa gcaactaaga caaaaagtta 120
taaatatctg caaaatgtta tcaaaactta aatttgacga cctttaagac taaattataa 180
aaaaaaaaat tagtattgat gaatagaaac aaaattagaa gttgaagacc aatcaattaa 240
tttcaataga ggaattcttg aaaggaaata atgtgattct ccaaatacga gtagtcttgc 300
aacaaggcc atcacaaagc ctttcattgc ttgaatgaaa ttaattattg atgcaaacat 360
tatagcaaac ataagatcca tactatgcct acaatgatcg aaaaaaaaaag agtaacaatt 420
g 421

<210> 6095
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6095

ctcagcttga ggattatggg gtacccatca catgtggtac tangtggctg tcgtgcgatg 60
gtgcacaaca gagttttcac atgcacgatg cgcgcataaa cccaccatcc cctgttgccc 120
acctccaact gagctcacgt actcccacgt agcccatatt ctcgattctc tcaacaccgg 180
gtccccataa atcctcccaa gcttcacaa catccaagct aaacaacatt caaccgcac 240
aagctatcac agtcaagcaa aacagagcat atgcagaaac tctgccgaaa caccaaccac 300
aacacagcta attccactta aagaccccag taacaattcc ttcgttccaa tatgttaacc 360
ggtggatcga ctcgaaaatt ctactggaag tctctagtac ttaagcctac attttgaccg 420
ctgggatcta ctagcnaaca tccagaactc attctacatt actcttttca caaccagcac 480

atacat

486

<210> 6096
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6096

tgcagcttcg ttgtcaattt cgagcgtctg gatatattat gtcccaaaat tggacatccg 60
tgtgaaaagt tatgaccatt cgaatttctc gagagcttcc gtagttcaat ttcgagcgtc 120
tcgatatatt atctccccga atcggacatc tgtgttaaaa gttatgacca ttttaatttc 180
tcgaatgctt ccgtttttca atttcgagca tctcgatata ttatgtccag aaatcaaaca 240
tcagtgtgaa aagttatgac cattcgaatt tctcgatagc ttccgctggt caatttcgag 300
cgtcttgata tattatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgaa 360
tntcttgaga gc 372

<210> 6097
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6097

ntngacggac tataccaagc tctaggaacc agggacggag aaagatctat atatatgctt 60
gctaattgga gagagaggaa gactagagat ttggatcaag taaagtgtgt taaggatgaa 120
gaaggcaaag tcttagtgca tgaaaaagat atcaaggaaa ggtggaaggc gtatttccac 180
aacttattta atgatggata tggatatgac tctagcagtc tagacacaag agaagaggac 240
cggaactata agtactatcg tcggattcag aacaggaag taaaggaagc gttgaaaaga 300
atgagtaatg gtaaggcggg ggggccagac aacataccta ttgaagtgtg gaaaactctt 360
ggagatagag gtcttgagtg gctcaccgaa ctctctaacg aaattatg 408

<210> 6098
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6098

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agcttatggn gaaggacaca ggtcttgact gggatggtga gaagaaaacc attgcagcta   60
gtgatgaatg gtgggaagcc aaaattcagg tatgtattat tcaacgaaaa tagagttttt  120
gtgtaggcca ctcttttggt ttttatgtgt gattcttgac tttgcggcaa aaattgaagt  180
tgcagactgt tttttagaaa ctgtgtctta aaattttagt tgataattag gttggttatt  240
actctgttac ttgttgcaat tgaggtagtt tacatgcaaa gaaatgaatg tgttgatata  300
gtgatgtttc ttttaaaacc taatgaaatg gaaatttatt ggcatgttnt ttattactct  360
acttttattg gctgctgcat gtttatct                                     388
```

<210> 6099
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6099

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ngtcgtgcca tcaccattct ggctaaacc catttcgggc tcatacccat ccctcagcat   60
aactcgggca accatcaaga aggcaccaga tagacgcggt tgcaccagag gagccttccc  120
ataagcattg ttcataattt ctagcgcttg aaaagatggt tocaatgact cttctgtagc  180
ttccacatag ggtgtagagc atggacaact cactagtata tcttcttccc cagacactat  240
aatcagctat ccttccacca cgaactttaa tttctgatgc agcgttgacg ggaccacccc  300
aacagaatgg atccaaggcc gacctagcag gtaattgtag gcgaggggta tatccattac  360
atggaaggtt atctgacacg tatgtggccc aatttgaatc gggagatcga tctctnctct  420
cacgtcacag                                     430
```

<210> 6100
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 6100

```
gctttatata gacttcagag ctttgattct ttagagatcc caactagctg ctgtctaata   60
gctcgagcgt tctacataag ggcattact ctgcacagag agaataggga ccacaaatat  120
```


cttcagggaa gtataccttg ctagtgtcgc cttgtgctta gagctgactt tcagcgtaca 180
 attcgaatac aacgttaaca acataggtca aaaggaataa agaatgtcaa gacaagacaa 240
 tgtaagactt tcctcttgtg cactattgca caaattgctt actaaaccat atatggacgt 300
 tactttatga tgattacttt cagtacttga ggattgagta actcttgcta aacttgtagc 360
 ttaagcat 368

<210> 6101
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 6101

agcttataga attacttgaa attcaatttc tgatcatact taaaaatgat tccttagcac 60
 aagcactacg taatttttta tcatactgct aattctatct gaagcatttc tttctatgtg 120
 agacgatgcc gcaagcagag ctggaaatga ggtaagactt tctagagata gccttcctaa 180
 ctaaactctt tgatgggagc ttcttttagct gaacctgagt tcgattaaag ttggcctgca 240
 cctaagaata accatttttg acctctccca ttgttcgagc tacttcgtaa cctctccttc 300
 aaggatagaa gctagaagca gatagcagcc atatggatag gtattcaatc gcttgcttta 360
 aaaggtatga 370

<210> 6102
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6102

tgccctgtccg atgcagcagt aatgattgcc cgagttatgt tggggaacgg ttacgaaccc 60
 ggaatggggt taggcaaaga caacggcggc ataactagct tgataaatgc caaaggaaat 120
 cgtgggaggt atgggttagg ctataagccc actcangaag atgtaaagag aagcatcgcg 180
 ggaaggaaga gcggtggtca aagctcgcg ttgagacaag aaagtgaagg aagcccgccc 240
 tgccacataa gtagaagctt tataagcgcg ggtctgggag acgaagggtca agtggtcgcg 300
 atatatgaag atgatgttcc gagtacattg gatttggtac gaccatgcc ttctgatttc 360
 cagctgggaa attggcgagt ggaggaacgc cccggcattt acgcaacgag cataatgtan 420

acctttacgg ttntaaagct cta

443

<210> 6103
<211> 393
<212> DNA
<213> Glycine max

<400> 6103

tgccagctta aagctcatgt catgcatctt cttaatctcc aacaaaaaga tagggctata 60
tatgaatagt aatggaagat cagactacac actacagaaa agaagaagat tgaatcatga 120
tagttagtcg aagaggatgt tgccaagggt ctacaagtc tagttgacct tgagcaatct 180
agcactaaag aaaatgaaca agaactgaat gcatccattc ctaatattgc tgccaaggca 240
ccaatctagg agtccactta tgcaaagcag tctcaagaag tcacctctgt ccaacaagag 300
gtcattgtat actccagcaa tccaaaagat gttcttccaa tcaactaccg tgctcccagt 360
gcgatcactg aggaacacat tcaagagatg atg 393

<210> 6104
<211> 413
<212> DNA
<213> Glycine max

<400> 6104

tctcccacga gggctttgat gttgtctcct tcaacacatg ttttatctta agagcaaggg 60
ctaactgaat cgtgctcata atccttcttt ggatcttagt ccactcggtc tcatttatag 120
aaaccaacct ttcatcttct aatgtctgat caagacctaa ctgcatcaaa atgtattgaa 180
tagtactctg tcaaatcata aaatttattt ttccatcaaa caatgggtatc tcgaaccttt 240
gtgtgctctc gatcatagct ttgataccac tgttgggtaa tcaacgctct cacaacaaaa 300
aattactcac acccaciaag gaccgtgaga acacaataaa gattacacca tatgaaaaat 360
aataacaaac acaagaacat aacatgggtc ggcacctctt gcctatgtcc aca 413

<210> 6105
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 6105

atatgtacat tactactatt ttatacctta tcaaagggat aaatgggagt tatttatggt 60
gtaggagtat cagaacaatc tgtttctgca gtgtggcaag cagaatgatg gtaatgccct 120
gtaaaattaa aattatatgc ctttgggtat ttaagggagt ttcttctagg tggtgcaatg 180
aagcctacta cacatggcca gtggggtcat ttagcttgtg ccatgtggat acctagtgtg 240
gttgtgtatg actttattca ctcttntta cccagtttg ntatttttac caagtgtcaa 300
gatcatggac atgacaggta tagtagcatt cttacacat aaggggaggg caaaacattc 360
ttaacangat aatttaagaa tg 382

<210> 6106

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6106

tctacttatg tggcagggcg ggcttccttc accttcttgt ctccaacgcg aactttgacc 60
attgttcttc cttcccgcga tgcttctttt catgtctgcc tgagtgggct tatagcctaa 120
accatacttc ccacgattac cttgggtatt tatcagtcta gttatgccgc cgttgttttt 180
tcctaaacct atcccgggct cataaccgtt cccaacata actcgggcca tcattaccgc 240
tgcacggac agactaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300
aaaagactgg anagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
tgggcagctt accaagatat cnttctcgcc tgacacaatg a 401

<210> 6107

<211> 557

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6107

caecgeccn cccgcgcccc tacctncnct ctctcttcaa cgnnncnenn ncccccaagt 60
catgtgctct gagcgctga actcgtgag acaganaaga tccgatccga tcagatatatt 120
tttctatag tatgacggga ctcttcataa cggagcagca caacgctggt tgctccaaca 180

gagcttacac aagagcattg actctctggt aaacgactac caaaatagtg tcatcgaata 240
cctctatcac aaaggagttg agagagtttc ctgaagaatt tectacggtc ccatttgctg 300
cagacagttg taaacgatta tcatgcgctt cggaatctat taccagaggc tctgaacgct 360
ggaactccca atccaaggga agagacgccc tcctttcctg taaacgttgc gaagctaata 420
ccngacctg ggaatgcaat cacgcggatg gngctcgata tagataagat gaacatcttc 480
catgggtgct gaatttctac atggtagcgc ttcttcaaga ataaacctct agaggagctc 540
tgacggacat gataccg 557

<210> 6108
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6108

accttgctta gtctcttgag aactgtgttt ctagatgagt gacagtcctt gttaaaacct 60
anaccaagt cctgaaggat taaactgctt aaccaaaccc aagttgtttg gacaagaaaa 120
acatgttccc accaggttta atccattttg acgtatttat caattttgta gtatctcaat 180
agttaaatta aaactaattc aatattatta taaacgttga cctgggttatg ggattaatcc 240
ttgatcaaag tttaatcaga cttgtcactc tttcttaaga atgtattttg cgagaattaa 300
acttaagggt gggtaagtag gccggcccat cccgcgtaaa acccgtccac ataagttcgt 360
attggcaata gattggacca gtctgtcccg tactcttaca cggatntaaa agaatggcct 420
attnntttct taaaaattgt aattttaa ataatatatt ttctctttaa aaaaaatagt 480
aattacactc aattatata 499

<210> 6109
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6109

agcttcttgg caatcctcat tccagcgatc agtttggttn ttgcgtaaga gcttgaacaa 60
cggctcacaa atggcgggtga gctgcgatat gaatctggca atataattca agcgtcccag 120

gaaacctcgg acttgctctt ctgtacggng ttctggcatc tcaaggatag ccttcacctt 180
 ttccgngtct acctctatcc ctttctggct tacaatgaaa ccaagcaatt tcccttattt 240
 gaccccaaaa gtacacttgg cgnggttcaa ccttaattga tatttctt 288

<210> 6110
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 6110

tactaagctt gtacctctcc tgtctttgac actgacaatg acctttaatt ttgtattttc 60
 aaattgcctt agtacgatcc agcgcgcctt ttaattggat acacattggc tagtagtggt 120
 taaaagatga aaacaattta tttgtttgca atgccatagt tgcaagtttt ttgttcatca 180
 tgctttgcct gagagtagcc tattctgatg ttgctactct gttggcgctg gtgagccact 240
 tgattggatc ccaactctttc tctgcaccta gactgaccac tgctttgacc acattggatt 300

<210> 6111
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6111

gcttcatcan gtcgtaccgg aatcanatat acattaaaaa tgcagtatct aggaagtgat 60
 cctaggtcat ctcccaacga gcaatgggtca accaaaacgtt cataacagat agtaataaaa 120
 cagtaatgaa ttggggggttg tttgtttttg taaattaaac agcaagtaaa tttgaattag 180
 aaaataatag aattaaaaca tgttgtttcc ccttgattca caagcaagtc tcttatgcta 240
 ggttacgaga atttatcctt aatcagttca accacttact ccaaccctaa attaaattac 300
 taagcaaaat ttaacatgag gctgtcatta tgtgattaag caacacatac accaattaat 360
 catgaacgaa acttatcatt aagcatgaac ataaattaag cgcagagaca attaatacaag 420
 cactaagcat gcatggatta 440

<210> 6112
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 6112

tacgacacac taacgacatc tattcttcta aaccaatgtg gtataacaag cgggtggcaat 60
ttcgttaatta taaagttaga aaacgaagac ggtgatgtac aaacccatct ttgaattgcg 120
aaaacaattc ttcgacgatg ttgttttggg gaacaccatg gtggttggcg cggcattata 180
gtcacgtgac tcgaacaaca ctcccatgac ctcaaaagac tgagttgtgc gccctaagta 240
cgtgaagact cgaacaagag tcaattgacc ccttcgttac tcagtttgca tcgtcactca 300
gctctccctt cctcagtcac cgtcactcgg atcgcatctt ctatcgtgac tcatgccaca 360
ccttccgcgg tggacacccc tagtctat 388

<210> 6113

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6113

tcatgcaaga attattaatc ttcttggcca actaataacc attgtgaggn ggaggcatat 60
gacgaaagtt aagaatcttt ntatttgact tccaatttag gtaaacaaaa tgggtagtca 120
aagttatgaa acccttagta ttaatagatg tccataaatc agaagttaaa cagatcctgc 180
caggaatagc acacaacagt tctttactga tggttttctt cctctcatat attctcaaca 240
tattagtctt aaaagtattt ctagaaattg gttaattgag gacacaaata acttatcaaa 300
gcctgaaact ctggatactt aacaaaaatg aagggcaaat tacgcctaatt cattagatta 360
cacaacaatt cgcgtgccat cattngatct atctctttgg ccttaaactt tccttgcatg 420
tctaagatca tttgactcat atcttcanag ttttttatct cacatctgcc attatga 477

<210> 6114

<211> 325

<212> DNA

<213> Glycine max

<400> 6114

caatttcgag cgtctcgata tcttatgcgc ctgaatctga cctccgagtg aaaagtgatg 60
agcatctgaa tttctcgaga gcttccggtg ttcaattgcg agtgccctgga gataatatac 120

gcctgaatca gacctccgag tgaacatta tgaccatddd aatdddctcga gagcttccgc 180
 tgctcaatddd ccagcgtctc tatatgtgat ggcctcaat ctgacctccg cgagaaaagt 240
 catgaccatt tgaatgtctc gagagctctc gttgttcaat ttcgagcggc ttgatgtatc 300
 atgcgcctga atgcgacctc cgagt 325

<210> 6115
 <211> 492
 <212> DNA
 <213> Glycine max

<400> 6115

atagatactc acgcttgaag gagacacatg agagggagtc gccacttcat tatgggtaac 60
 ttagccactt gtatatgcgc aaggcaatgc cctattgcac tatccactac tgaagttaac 120
 tatatdddag ctactactcg atgctctcat atactagtgg atgcagatac ttctcgagag 180
 gaccttcaca tccatgagag tcacattctt aactatdddg acatacaaga actgctctat 240
 caatctdddcc aacaatactc acttgcgtct cacggagagc actacctaata cacatactag 300
 gccatacaag accatgttct atatcaacat gctaataatddd ctctgcgcac ctttcgacaa 360
 ttacacgagc attgacttta ctcggatgcc cgaatatgcc ataatatatc agacactcaa 420
 attgacactg aagctdddag aattcaatgg catactdddta ctcgaggctc atcagctcta 480
 tatacagacc tt 492

<210> 6116
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 6116

atagaacaag cttaactcac ttccaaaagc tagcttcaaa gaggaggatt gtttcccag 60
 tcttataagg agtaggcatg ttaacagttt ttttgggctt gagtgtcata ctgacaattc 120
 tgatgggggtt gaagtgtgtt ttaacaaccc ctccaaaaaa aaaagcaacc accagtaagc 180
 ctcttataca atctattgc ttcttaatct tcaaccttta acacagacat tcgtgagaat 240
 gggttaaaatt ctcatccat cttaatcttg aaaactctta atdddgcaa ttgagaagta 300
 cctatactaa agaacttgca cccaatgggtt tta 333

<210> 6117
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6117

aagaatgagt atcatattta tatggttgat aataataata atatTTTTat tttttttctt 60
 gatacatgtn aaagacaaca acataacata agttaaaaag atttaatttc agttgattga 120
 gttggatata tgagttatta taagtttttt aattctcacg gataacaaat aaaaagagaa 180
 ctaacacaaa cttttatata tgcataatcaa atngaaacgg taacataatg actccttttt 240
 cttttaattg cttcttttcag gagagatcat catcaatgga catggaatca tgtgtgcctc 300
 ca 302

<210> 6118
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6118

gctntgataa gacaggacac actgctgtct tctactataa gctaaaacag atacaataat 60
 ctatttctaaa gatacacata attataacat aatcaacact gatcctattt gctcattata 120
 aataaaggct tagtgtgggc atccaagacg cgacattaca cagtaaaaaca ctattataat 180
 aaatgaagac taattgtgat catcctcaac aacacattac agcaaaccct tccaacatcc 240
 ataatgtgca atgaatggta tttaatgcat ataaggcaag aactagtaac atgtttgctt 300
 tgacatctca ccatgcttca tgtgtgtttc accgaaacaa acattcacgg cttctacata 360
 tattaagcta tgactcatgg atatgaacag acctaactat gtgatttttg aacagtagga 420
 tg 422

<210> 6119
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6119

attctaattg caagttcaca ttcttgggtct ttctttgggt aacatacata cttgctcaaa 60
 cttgtgaaaa gaaacacaaa ctccatcaca atcatgcatt caatccaaaa tcaaatcata 120
 aactaatttt tcacaaaaag ataaaagtgt ttaactgcaa tatcatcaaa gtcaagttta 180
 actgtttcat atgcttcaaa ataagcatac tagctaacca caaacacaat agaagtgtat 240
 ataaacatta accaaaataa ctgacacaat gtactgaaac tataatcatt gtaataataa 300
 tccanaaaga tgtagaaaca agcttcatga tgatgaatca agttgattca agtagttgtg 360
 atgatgacaa anagcccata gaatgatttc aagattgagt caacaagttc aagatcaaga 420
 ttaatttcan gtttcatgag aagaaatcaa g 451

<210> 6120
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6120

agctttagg attatggngt acccatctta tgtggtacta ggtggcggtt aggcgatggt 60
 ggcgaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactaa gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc tttcccaaca tccaagtaat acaacattcc aacagcacia 240
 accatcatag ccaagaaaac atagcgaagg cagaaaactc tgcccaaaac acaaaccaaa 300
 atcacagctt ttctcactta aagaccccag taacaattcc ttcgttccaa ttcgttaacc 360
 ggtggattga ctccaaaata ttactggaag tctctagtac ttaagcctac attgtgacn 420
 gtgggatcta ct 432

<210> 6121
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 6121

actcagctta cagttccgtc actttggata atacacaaag aaggctgttc gatgttagaa 60
 gacaatctca acaggttagg gatacagtgg tggaatgca atctaaaatt ggtagtaatc 120

gagtgcgctg catggagtta caagtagaac ttgagaaaga aaggatttta gtctgtaata 180
atgtgtacaa aatTTTTctt cgaatgattt ggtacacaga agttgtgaac cttcttgtct 240
ttctatatct aggtttgcc aaaaaagagt ggaagaggat ctggaggctg ctaggagaaa 300
gtttacgcgc cttatagagc agaatgaggg ctcttcagta actgaaaagc ttcaagagga 360
acttgaagag tacagggaca ttatcaagtg cagtat 396

<210> 6122
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6122

agcttatgag cganacaatg cgactattat atgttaagtc gaatttcagc gttcaaggac 60
tctggtaatc gagtaccaac acatcggaat agatgacagc ctggtgaaga tatgaggaac 120
gttgcattgat caggttgaaa gcattttcta gctcattctg ctactagcga tcgattacaa 180
caatatggga gtcgatgacc aaagtaactg ctctctggca aaggttgtgt gaaaaactca 240
tgagctattc aaagtgtgga ataatgaaga aatacttatt atgat 285

<210> 6123
<211> 124
<212> DNA
<213> Glycine max

<400> 6123

atgccccacg ttatctacat gagacatgtg ccaaaccgat tattgtgaac ctgtacgcat 60
aacatgtcat gcgtgcacct atgatgacac tccattgtcg aagattgatg gtcattgtat 120
gcta 124

<210> 6124
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6124

agctngaaga caagactata cgaggtatct ttcttgggta tagcaatatc tctaagggct 60

accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg 120
aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt atactcgttc 180
aactacctca agaagaagat gaggaagana acccaggtga accaccttca cctccatcac 240
aacaacaaga agagatggag tatccataca gaannaattg caccagtagc tcgtcttaat 300
aagacaaagc tcaac 315

<210> 6125
<211> 317
<212> DNA
<213> Glycine max

<400> 6125

ggaagaatca taggaaatta ctacaaatgc cgctatcact gttggactac acacatgagc 60
ccacttaaag gtaaggggtg agtttaccgc aattgtggtt agaatgaacg tgtaaggatc 120
cttataagat caaattgagg tttatttttg aatgttttgt aacatcccat tcttctgtaa 180
gataaattta ataggattta tttaaaattg aatagagttt taggaaaata atgagatttc 240
tgtaattaaa taaatcagga gaaataattc tattgattaa aataatggct tcaggggaaat 300
acataaatat atgttct 317

<210> 6126
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6126

agcttaatct taatgatcaa tcattaattc acgagacatc ttctgtttgt ctctgatca 60
tgcactgcag aaaatctaga agttgctgca agaggttcaa aataaatggn gaaagctata 120
atgaactggc catccacctt gtctcaggc tccttttctt cattttcatt agcaggactg 180
tccttgtttc cttctgctgc atcttctctt cctacaggct tctcatcagc aagaaccttt 240
tcagtttcat tcaccacttc ctcagtcacc ctatgaaatt aacatcaaaa ggaacaaata 300
attaataact gccaatataa aacatgagac tcttgatga aaattctaatt ctgaacttca 360
ttattattaa nattaagaat taanantatg aatacaaaca attactta 408

<210> 6127
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6127

```

ttgattcaag atntcttcaa gatcaagcct tgcctcataa cgaaagggtt caagtcatcc 60
aaggcacatg taatcgatta ccaatacgtg taattgatta ccaatgattt gaaagtgtgt 120
aatcgattac tagagactct gaatgttggg aattcaaatt ttaaataaag agtcacagct 180
gttcaagata aataactatg taatcgatta cactaatgct gtaatcgatt agtggagagg 240
attttcaagg aatatcgcca atagtcacat cttatcattt ggattttgaa tggccatcaa 300
aggcctatat atatgtgtga cttgtgacaa aattggaaga gagttntgct ggtccagaat 360
gtcttatcct ctcacaagaa aatgagagag attccaagag aact 404

```

<210> 6128
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6128

```

agcttaactc tcaaattccn cttcatccca ttctcttttg atataggcat tccttcatta 60
gggacaacaa cctcagcacc aggtttgaca atatctgtca atgggatcat gagactcctt 120
ccgtccaagg tggtagatc caacgtttta ccagtaaggg cctcaagaag gggtatctct 180
tggttgatca ccaaatacatt accatccctt ctataaagag catgagggtt ctcattctatc 240
acaaaaatga gatctgctgg gatgacacca ggctcacggt tacctttctc tgggaaggta 300
atttttgttc ctttcttcca gccaggtttt atctcgatag tcaaaatctc ctccacatcc 360
ccacatttgc tgaaatggaa ttgcatgtgt caaatattgt caaaaaacac aaa 413

```

<210> 6129
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6129

tgcagcntga gatctcctgt tctgtctgac taccttccac agtttatcaa ccataaatng 60
 taagagatgc ttatcatgga attgtgccac cttgttatac tccactgcta aaaaaattta 120
 ccacataaag agtagtagca tgctgcaacc acaagaaaac ttattcaa at gatttttaaat 180
 gtacagggttc ttaactttca tagtaaataa tacttaattg tgtcagaatt ttttaacaac 240
 gtanaatgga agaattttctc ctatcaagga atatcta atg ccaaacagcg aataacatgt 300
 tcagaagtga acaataacaa atgatcaata gaaggcgcgga gagaatatca tttacacggt 360
 tcagattgta attgttcacg caacctttga caaagaagca tgtggggatt accctttaac 420
 tgatatttaa t 431

<210> 6130
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6130

agcttgtgca aatcanatca ctctcacatc tcatctctag catgcatttt ctttctttac 60
 ccactcctca cgttttggttt tttagggaaa acaccataac taaacgcgcc gcaagggatc 120
 cctatcgcac cagatccaaa tctagaacga tgggtgatca agaggagacg caggaacaga 180
 tgaaagccga catgtcggct ctgaaagaac aaatggcctc catgatggag gccatgttaa 240
 gtatgaagca gctcatagag aagaacgcgg ccaccgcgcg cgtgtgcagt tcggctgccg 300
 aagcagaccc gactcccttg gcaactacgc accatcctcc ctcaaacata gtangacggn 360
 gaagggacgc actgnngcac gatggcagcc ctcacctggg atacaaccga gcggcttacc 420
 cttat 425

<210> 6131
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6131

atatgcatgt gaattatgaa gcatcaacaa gaatcaagcc aaggctattg tgcaagcaat 60
 caatggggca aaacacacca aatgattatg atgatggatg gctcaaattc tcacaaaggt 120

aaactcatca ctttcaaatt gagctttcaa aactatcatg acatgtagag gagaatcaag 180
gatttcaagt cacaaagtgt caagaacttt tattntcaaa acaattaccc atttcttgaa 240
catatcctat aattcaaaga anaacatgca aagtcgtaca tgcatacaaa attgacccan 300
aatattaaac taagaatccg acgaaactag caacattaac aaattaacac aactaacaga 360
ttaacagaac caacaaaact agcanaacca aagaacactg cccccccccc ccccatactt 420
aaacaacaca ttttgtctca tgagcacaat 450

<210> 6132
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6132

agcttgagat gaggaagtgt tgaagggtga aacttcctgc ttttattggt gaccacagag 60
tggtacctgg agatatgtcg cggnggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccg cccaaccgg gcatagtcgg tcagtggagaa 180
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agttgtgaat tntgtgtgat atgtaaagta 300
atggcctctg gtaatcgatt accaagggtg ggtaatcgat tacaaggctt ataatgaag 360
acaggaggct aagatggtct ctggtaatcg attaccaagg ggtgtaatcg attaccaggc 420
ttgaaaacga agtcaggaag 440

<210> 6133
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6133

ctaagctttt atccaggctc atcttgggtg tgaagctcct tcttccatgg cttattcctt 60
aatggatggc gctcctctc acctatcttc ctttgtcttc cgctgcatct ccatgggtgga 120
aaatcaccat taaaggaccc cattgaagct caaagatcca gcctccatag aagccccaca 180
agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg ctccttaacc 240

tccattaatt ttttttcttt accttctctt ccattggtgg ttcttcatta ttctccatgt 300
atctcctcac atgtcttggt ctaaagtgtg ttaacatgat tctttagagt ttccaccgat 360
taaacttgct atagaagtta gatttgattn tctat 395

<210> 6134
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6134

gagtgcacgc ccgagaaaag tttccatccg tgccggtgat ggttntcaca acttgaaggt 60
aaatttttat ttattgggtt gggtttgatt gggatgatta tgcttaatta tttgggtgtg 120
actttgggaa cattnttagg agattaagac tgtggaactc atgaaggcaa ctgggtgggt 180
ttatctatcc ttgtctggag ctcatcctan gtaagtacag tgttctttct gtatccagtt 240
tttggttggt taagtttgta tccaattttt gttggttgga ggcctggatt tttgttttca 300
acgaaatttt gtgtgcatgt tttggtagat ttctagcata gagtaaaaat taaaagaat 359

<210> 6135
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6135

ctcgcccagg caagcagggg tgcttcctcc agaagcaaca gccttctgga ggaatcttct 60
ggagggccca agtgggcctg gttgctatct gcaccccat ttttactaag tactcccccc 120
tgcccttatt ttggtgattc ttttttcgta cagttacgga aacttacgaa tttcgtaacg 180
atacttggtt tctttccgta atgttacgga accttggtga ttacataatc atccccttac 240
gaattgtgac ttacggaatg ttacggaacc tactaattg tgcaacgatg cttccatttg 300
atctccggcg tgtcacggaa ccttacggat tgtgcatcaa tttttctttt tgttttctgg 360
cacgtccctg aatttcacan atggccta at gatgggtgcc aagcacctta caaggaccaa 420
ataatagtcg catgtcatc 439

<210> 6136

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6136

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agcttcccga gtgtcccatt gaaaaccttt attcaacctt tcanagttag tgataaggct 60
aaacgaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaat 120
catagcgaat tactaaacaa gattagtagt ttgcttaagg tcattccaga tactccccaa 180
gcttcggaaa atacttccaa aatggtaaca agaagtacct ccaaattaat taatgttatt 240
aatgaagata gtgaccaaaa cttagataac acaactgaga taggatcagt gtcagaaaag 300
aatataaatc cattaaactc caaactggtg aaaacccccct ccaaattata ttatcaacgt 360
ccaactgccc ctgaccttct attagaagaa agagggtgaa aacaatttaa aatttttagt 420
gcaaataaca tctatg 436
```

<210> 6137
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6137

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agggatgtgc ctcgtgttgc gacctataga tactcagctt gtcacctcat agctaggttc 60
ttcattgtaa tcagcctatg ctgtggnagc tagntgatga gcactgcggc cttagattat 120
taccatgtgg atgaatggtg gactctgagc attctgcagt gacaaagatt cattacctgt 180
gaattgcaca aatgatcact tgggctaacc gcatatacac cgtctaggag aaacagacag 240
agcatcacac atcatgagct cttntagcaa catgtgcctt cctgcaagct aactgcaata 300
ctggcgctca gctatgtagt attactcacg ctgagcacga ggggtggaggt atgccactgc 360
ttgatttcat accaatatag agactgtctg tgcagataac ggtacactct accgaatacc 420
agggccacta tactcgcaact ccagtgctat tttggtatga ctctagatga cgcatatgac 480
atcgattggt cgagctagtt atctcattaa 510
```

<210> 6138
 <211> 441
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6138

agcttatgcg catatttcct tacgaacggt cacttgcaca agacatccta ttaactaaga 60
aaaatgcacc catatacaat caaggcagct tcattaccta gattatttac atgtacttcc 120
aagggtgtatt tggtatttac atcacacacg tctccttggt taaatttaca tacatgcata 180
ctcaaagcat tttggggtac caaaaattgc acgtgtgcac atcttggtat ttctaatacc 240
tatacataca caaacttcat gatgaatctt gactatctac acaataagggt gctacgtttc 300
atgctctttt caaatttttg ctacctaaag tcgcatgcaa attcaagtat attttccttt 360
gctgactaan antgtattaa aagggtatca ttatttttgg aatgtatttt ctttacataa 420
catgcaacat atttatatat a 441

<210> 6139

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6139

gctcatattt tagaagttat cacttctgtc aactctatga tgccttnttt gaaaaaggaa 60
aagagctatt atttccctta gattgttcca aacattgtct agttatcctt ttagaagnta 120
atatgtgaac taaagctttt attgtagtcc aaatttcata ataagggcat agccttgga 180
tctattctcc gtaaagtagt ctttaacaaa ttaaagaagc attttctttt gacctgtatt 240
atttgttttt ctgttcagtg ttcatttagc agaagttat ctgtaataat aattaataaa 300
ttattctggt gcaatatatg ctcacaatca aatgagaatc tgatacataa tgcattctaa 360
atagtataag acatcaaata gtctgtgctt acagatccct ttggttacct aagtaaatta 420
gtgaaaaatt atatttgtca c 441

<210> 6140

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6140

agcttggatt gattcagcct gactagggat ctaggttttag taatttagac tacagtatag 60
aacacaaaag catgattgat tagagaaaca tctttacata catcagctgg ttcgttagaa 120
agaccaaca tattttaccta ctactgttaa ttttacttac ttgcattttt attgttttta 180
gcctagactt agtttaattc tatttttaaac catcaattat caatgtctct tttaaaaatg 240
ccttattttct gaatttaact ctgtctaaga ctagttccct gagttcgata ctcggtattca 300
tccgctttta ttntaaatac ttgaggatcc ggtgcgcttt ccggcaaacc aaatttcct 360
taaacadatt tgcata 376

<210> 6141
<211> 412
<212> DNA
<213> Glycine max

<400> 6141

tgtccgatgc agcagtaatg atggcccag ttatgttgtg gaacggttac gaaccggaa 60
tgggttttagg caaagacaac ggcggcataa ctgcctgat aaatgccaaa ggaaatcgtg 120
ggaagtatgg tttatgctat aagcccactc atgcggatat gaagagaagc atcgcgggaa 180
ggaagagcgg tgggtcaaagc tcgcgttga gacaagaaag tgaaggaagc ccgccctgcc 240
acataagtag aagctttata agcgcgggtc tgggagacaa aggtcaagtg gtcgcaatat 300
gcgaagatga tgttccgagt acattgtgat tggtagacc atgccctcct gatttcagc 360
tgggaaattg gcgagtggag gaaacgccc gcatttatgc aacgagcata at 412

<210> 6142
<211> 343
<212> DNA
<213> Glycine max

<400> 6142

agcttgctta agtcogtata ttgaattctt tattgtgcac accacgtgtt cttttccttc 60
aactgagaat cccattgggc tgggtccatgt acacattctc ctctaaatct ccattaagaa 120
agatattttt cacatgcatt tgatgtagct ctaagtcata ataggctact agcgccatga 180
taattctgaa ggaatccttt cgtgacactg cgaaaaatgt ctctttataa tcaacatcat 240
ctgtctgagt aaaagtctta gtaacaacag ttggcctagt aatgttcaag gttgccatga 300

gagtcacatt tagtcttaca gacccatgta caaccaactc tat

343

<210> 6143
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6143

acgtgcacgt gattaagcgc attgctgtgt tatcttgaaa accaatccgg atatagatca 60
agttacactg aattatgacg taatttcact gttcaaacag tgctcatata tataataaca 120
caccatgga attcttccgt ctgattcaa caaacaggca tcccttgaca tagatatata 180
aaaaaacatc acactttaat taattaactg ggcataataa acccgnggta cagaataact 240
cgaataacca agacacagat gatagtatgc atcagtgtga tcatgggtca agttcgaaac 300
attgatgatc gaaactttca tctccatgga atac 334

<210> 6144
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6144

aacacaatca atatatccca aagagaaagc aaacaatgga gatgaacttc ataataaaat 60
gcaaatgata tatgagcttc aagagaatat gaaagaacag agagagaaac ttcaagtctc 120
aaacatatat atatgtggct ttttctttga caccctcccc aatacacaca cacacacaaa 180
aaaaaaaaat cttaaattga gggtatctgc atggctgcac aggacatctg aaagcaagtt 240
ttttgccctc tcaccctctc caattttggc aggtgcatta gagatttact aactatgtct 300
agtacaacaa aaaacaaata tgtcactgga tgaacaaaca ttacagatgt gttnngagaag 360
agcaaacact atca 374

<210> 6145
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 6145

agctnttaac taanggctat ttaaggtggt tttatatattt actttntaaa aaaaaaatcc 60
aataataatt aatcacgtta agaagggcta ctatgagga ggtaaggaat tngtggaag 120
ggcaatgggt tatagtgttg gagatgaaga gaaatTTTTg tatggaaaaa gggatctgtt 180
gggtaggatg ttacatgagt tataggaagt gaggttgaag gagaggattt gataaatgga 240
cgtggaagaa ggatcatata aaatactata gaggacaggt gaggaaggag tgacatggng 300
tggcacttat cagcacatga ggaataaata tgttcctcta aagat 345

<210> 6146

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6146

tgtatacttc cnncattta tggttattnt gagagtaaatt ttgttaataa atcttggtct 60
atgggtaatg ttgtcttttag aatatttcca ttggatttaa tgatgatata tgtgcatttt 120
caggtgaaaa agaagctaag ttttgaattg caaaaagtag cagttgggct aagcgcatat 180
ccaccgctaa ggagaatctg gcaaagcatc agcatcagtg cgctaagcgt agcaggtgcc 240
ttcggccaag ctaagtgcaa gattggcgct aagctcaatt tcacttactc acgctaagcg 300
cgagggtggc gctaagcgca acgtcatgat ttcagagcct atttaaagcc tgtcttgtgc 360
agaattatgg tacactttac agaataccca gggcacaaaa ttccacagca gccacagt 418

<210> 6147

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6147

agctatagga tcaaaatctt ttttctctct tntctctca aatattgttc attcttctcc 60
cacttttcac ttatgttctt tgtagtcat catttacgac taacttttgt attgaaaagt 120
ttcatgaaat ttatatcttt ttcatgaaac ttttgtattg aaaagtttca tgaaatttac 180
atctgctaag cgaggcactc agctcactta acgagttgcg agaatctgga agagaatctg 240

tcattcatgc atgcgctcag cgtgccatca gctccctcag cgagtcattt gtctcttctt 300
 gtgctaagcg cgctagattg ctaagcanaa attcactaac tca 343

<210> 6148
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6148

gccctgggta tgctctgact ccagagaaaa cccctcggcc cagagtagaa ggtgcattta 60
 cacttttctt tttctatgta cattgtatgc ggacattata aatagcaact actactgcgt 120
 catctctggc ggactacggg tattaaatat tttatgatcc tttcaatcca catattgaga 180
 ccttgtggac gattgtgcac gaaaaagtct ttttaattag aagaaaccaa cgatgatttc 240
 atccttattt gtggtgaaag aagcctactt ttaactctct actactaaat ctgataacaa 300
 gaagaaagac tttctgttac tgtcacaaaa caaaaagact ctttcgatct actgcataag 360
 atattaaagg cctactccgc caccactgca tatctgagat atgcgcactt cttattattg 420
 ggtgcttcat ctcatggggg ataataaata atgacttggt tcatcctgac aagactttgc 480
 gacataaagg atctgaagtg atcccn 506

<210> 6149
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6149

agctntccca caagtcctaa atgacattnt atactaggat taactcactn tagactccaa 60
 ttacactag ccccaaattt agcttctcta accctcaaaa tctcactttt ctacctacaa 120
 cattgtcatt ctacatttta accctaagtt aactttcccc ttcactctta ccagttttct 180
 atcagcaatt tcagcacaca aacatcacca agcatcatca taaaacccta aaacagaatg 240
 ggtaaatttg gtcacatca aacatgacaa gtttagcatg ctttcaacaa attccttcac 300
 aaataactac cataaggcat aaacttagta gaactaccca tcatatctcc canaaaccca 360
 ataccacga aattcatgtg agaataag 388

<210> 6150
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6150

atgcccgagt cattcatccc tatgagatgt tgttgaagta ttggcgacca gaattgccat 60
 tccttggatt atatggttga accaagctca tgtttttaca aaaaggttca tcaagtcaag 120
 ttgaaatatg gaagtaaccg tcttgcacaa ttggggcaaa agatgaatcg agtcacatca 180
 ctgcttcgtc tactgccaaa catatttagg attattgatg tccttggttac ttccagtttc 240
 accttgacaa agatgtcatg gaccatgttg aaaatctaaa ttgattcaac cccatatacct 300
 gcgtaaaaaat tcgcaatact tcaactgtac atcattcgca tacatccatg cttttcattg 360
 gntgcattgc tcattgcatt ctttccttga aaaataaaat anaataaaat aaaatgaact 420
 taatca 426

<210> 6151
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6151

agcttctata taagctgaac cattntatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg ccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg aattttcaaaa cgagaccttt cacctcgtnn tggaatcacc 360
 tcatttggag 370

<210> 6152
 <211> 255
 <212> DNA
 <213> Glycine max

tgtctacat tacatatata cacttgagat gtcattgggt attaatatca aacctatcga 300
ggctgagctt aactcagtc tataattgag ctt 333

<210> 6155
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6155

ataacacgca gagactaacg tcgtcttctg cgaccttctt caatcgcggc cgacaagctt 60
gttgacatgt tgagatttac gtcattctcc gcgctcaca gatctgtcat actgactttt 120
gagtctcgcc gacggccgaa aatacccgag tggttatccg tataaacttt ttgttgtcta 180
taagacgaaa agcctgatag cagcgagaga ctaacgtcgt cttctgcgcc cttcgtcaat 240
cgcgcccgac aagcccgttg acacgtggag atttacgtta tcttccgcgc tcacaagatc 300
tgtcacttg acttttgagt cagctgacg ggcgaaaata cccgagtggg tatccgtata 360
aactttttgc tgtctgtaag acgaanagcc tgatagaacg cagagactaa cgtcgtcttt 420

<210> 6156
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6156

gtcagcgtga ctcanaagtc agtatgacag atcttttgag cacggaagat gacgtaaatc 60
accgcgtgta aacgggcttg ttggccgcaa ttgacgaatg gcgcagaaga cgacgttagt 120
ctctacgtgc tatcaggctt ttcgtcttac agacagcaaa aagttttatac ggataaccac 180
ttgggtatct tcgcccgtca gcgtgactca naagttagta tgacagatct tgtgagcgcg 240
gaagatgacg taaatctcca cgtgtcaacg agcttgtcgg ccgcgattgg cgaatggcg 300
agaagacgac gttagtctct gcgtgctatc aggtttttcg gtttacagac atcanaaagt 360
ttatacggat aaccactcag ctatttcccg ccgtcagcgt gactcanaag tcagtatgac 420
agatcttgtg ag 432

<210> 6157

<211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6157

gttatgatag ggaaggggtca ctatgtactt cagctgttgc catcacaaaa atatatgata 60
 cttggataag acatcttgga acttgaaatc atgcatgcat tctctgtata caacaacaga 120
 ctagggttnt ctaattcctc aaccaacaat ataaagttgt ggtcatctga taatttgggtg 180
 aacgtgtatt agttagcccg caatgggtta tggatataaa agaggtttta ggacggattt 240
 atccattata tattgtggta atggatgttg gcaaagtga ttagatgttct gtatgggttc 300
 cacctatcat aaatttggat gtcagctctt catagaatag ttngaaaaca ggaccgcatg 360
 atacatcata tatattgtat taaaagaatt tcaatgaata gt 402

<210> 6158
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6158

ctcagcttgc tttaaacttc tacaatcgcc gaccgccgaa gtagcaatta tgtttggaat 60
 ttcgaatgtg ccccatattg aaattaattc acatgattgt tacatgataa aaacatgctt 120
 ctaaattctc agtttcgctt gaatatcaca tatagttgaa ttatttttta ttctattata 180
 agagatattc cattcaattg ttttgagccg gcaaacttat ttttcaacta tgcacctaaa 240
 ttcgaacttc aaaatcattg tacccaaata taaggcgttt aaataataag atatttctag 300
 atgaattagg cttgatagtt caacatgatt agtataaata ctacgtataa aatagaanaa 360
 aaatctatac aacgttgga acctttgggtg cttcctacat tntaaggaag tacttttcac 420
 acgtgtggta aacanaacga taganataaa atagagatca tgtgatagag tanaaacatc 480
 atata 485

<210> 6159
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6159

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tcactaatat ttgaaatttg ttgttctatc ttctctaagc tctttntctg taaattttta 60
agttgtaaag ctcttttaac accttgtaaa tcctgagaga aaaatattca gtgcttaact 120
tgtatatacct tctataagac gcttaagcta ttttgtgtgc aaaatatacc cccaacaaat 180
ttgttgattt ttttaagagc tagaagtggc ttttttgaga aaaaatactt tatgggtgtaa 240
atcttaggca taagctatgt tgtaagagcc ataagtggca aggaaaaata cttgtaactt 300
tntttaaagg tactagaact tgggtgggtg aaaaaccagg acatagtctc aatggtagag 360
atgaaccaat ataaaactct ttatgtctta catatttat 399
```

<210> 6160
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 6160

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acagccttct ggaggaatct tctggagggc ccaagtgggc ctggttgcta tttgcaccct 60
cctttttact aaatacaccc cctagctttt tttggtgatt cttttttcgt aaaggtacgg 120
aaacttacga atttcgtaac gatacttggc ttctttccgt aatgttacgg aaccttgagg 180
attacataat catccccctt tttgacttac ggaatgttac ggaacctcaa taattgtgca 240
acgatgc 247
```

<210> 6161
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6161

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agcttggaac taaaaaatga acccggttgt acctgttcaa cccaccctg attntccttg 60
acttgagaaa gcaggtttga gtttgggttt aggtatgtca cttcacccca tatgtgtccc 120
gctaaaatcc aatgggggata ggatttggtt tcattnttcc actcatgttt tgtaaactctg 180
aatccacctt gttgtgattc ctacccccta cggatatcat aacataacgt ctgaagaagt 240
taatatgaat gaagacaatg aagaaaaacc aggtgtgttt gaaaaaattg attattttga 300
```

tgctttcaat acttctcagg tattaatata attntgtatt ttatta

346

<210> 6162
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6162

cggaccttaa ccctaaccct attgtccaat ttcccatcat atagttctct aaattagatt 60
tcaagcctac aatccaaaca aacacggata ctaacctcgc caagctgcgg cgccaagtca 120
agaaagcttg tgtttcgtg gcgttcagct cgtcggcgga catgtcggga gtccatggcg 180
ggcggcgagg aacgcggagg ctgctggcgt ggagcgctc ctcttgcttc tgctgcttcc 240
tcgcttcttt cggcgtcgtc gttcaccgg gcacaaaatc tggatcgcta ctctcanata 300
acagcaacaa aaacaacata tattacagaa caattgccga aagaagagcg cgggcacgtg 360
aatgcgaata agagaaagaa ggctcacagg ctga 394

<210> 6163
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6163

agctttcttt ctagaccatg atcagtcag ttttctggcc gatgtccact gtcattnttt 60
tcgatcaata tcggagaata atattttttt tgccgagatg gtctaattgt ttcttgggcg 120
aataagtcga aacatgccag tttctgaaca aacaaaaggt cggttgagct cacacaaaaa 180
acctagccga cctacgttgt aaatttttta tgcaacacca aaacaagaaa acttcctctg 240
tcgtaaaata caaaacatta ttggctagcg agtggttttt taaagaaaat tgtgcaatgt 300
cggtcgaaaa atatcagtcg gagctatttc aagttcgatg tcggctattg agttttcaat 360
tcaatccgtg aacgaaatgt gcatgatgtc tgtaacgaaa tgttcgatag gcctcatcct 420
gtgaagcttc att 433

<210> 6164
<211> 427
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6164

ctcagcttct ttgtagacct cgatcgggtca tctttccagg ccgtggtcta ccgtcanttt 60
tttcgatcca tttcggggaa taatattatt ttgccgagat gggctaattgt tttcctggcc 120
gaataaatgg gaaaatgcc gtttcgggccc aaacgaagag tcggttgagc tcgcacaaaa 180
aaacctagcc gacctacatt ttaatatatt tatgcaacac caaaacaaga aaacttcctg 240
tgccgtataa aaaaaaaaaa aacattacat gacagcgagc gttttgaaaa acaaaattgc 300
gcaacgtcgg ctgaaaaata tcagtcggcg ctctttcacg accgatgtcg gctattgagt 360
tctcaattca atccgtgaac gaaatttgca tgatgtcggg taggaaatgt tcgatcggca 420
tcatacct 427

<210> 6165

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6165

agcttgatga ggtaattgta atcagcacac tcacacacac tanaagccac aaaactaggg 60
tcttcctccc caaaacccat gtactgctgc tcccagnttt ccatttcccc ttcacctgtt 120
ttgcatgtta tctactctaa tttctatcca tcataaaagc catcagaca catccaaaac 180
cgcttcttat cctaacaagt taaacaaaca aaacatttcc atgttccttt atcttcttac 240
caaactaact acggcaacac atcagcacat acatttattt aaacacagca gaaaccactc 300
tcacacaaaa tatcattata acccaacaag ggaagcaaat aggggaatca aatattagtt 360
gccaatacaa tgtcattttc taactgtagt gagatgttct tttta 404

<210> 6166

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6166

atttctttta tgcaagtga atgatgggtg ctgctagtgt cactaattta gaggaatgat 60

taacatttat ttgttgaaca atttaagttg tttctttctt ttattatgta attcgaaaaga 120
atgaaacatg ttttaagttgc taaacaaaat gaaacatggt gaaggacaac caacatagta 180
tattaatatc tccttttttg ctaaatagaa tcatatgcta cttattgttg ggacaacata 240
tatttagatg gtaatgtttt ttttgtggga aaataaatat gcatgtctta attcctcatg 300
cacataccca catttatgat tntaattgaa tagattgatt tgttntagta atnttttaaa 360
ttatgataat gatcctat 378

<210> 6167
<211> 362
<212> DNA
<213> Glycine max

<400> 6167

agcttgtata gttccccaat ttatggttat tttggagtaa attttgtaaa taaatattgt 60
tctatggtta atgttgtctc tagaacattt ccattggatt taatgatgaa atctatgcat 120
tttcaggtga aaaagaggct aagttttgaa ttgcaaaaag taacagttag gctaagctca 180
gcagttgggc taagcgcata tccaccacta agcgtagctt cagcgcgctt agcgcaaaaag 240
agaatctggc agagcatcat catcaaagtc gcacgcttag cgcaagatca gtgcgctaag 300
cccagcaggt gccttcagcc aggctaagcg cgagactggc gctaagtcca atttcactta 360
ct 362

<210> 6168
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6168

ntatagaaat tcaaattggtc atgactcttc acacgaatgt ccgattcggt gaaataataa 60
atcgagacat tcgaaatata acaacgaaag ctctcaagaa attcaaattg tcataacctt 120
tcacgcggat gtctgattcc gacacataac atatcgagac gctcgaaatt gaacaatgga 180
aactttcaag aaattcaaatt gatcataaca tttcacacgg atgtccgatt aaggcgcata 240
atatatcgag acgctcgata ttgaacaatg gtcgatattg aacaatggta gctctcgaga 300

gactcacatg gtcataactt ttcactcgaa tgtgcgattc ggagacataa tatatcgaga 360
cgctcg 366

<210> 6169
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6169

agctatagag ttgagtcttg tatcggttta atcgattaca actatctcat aatcgattac 60
attgttgttt gagagaatga ctgatttatt caggagtctt ggctntaatt gattaccaag 120
atcgattact taaggcatct aatcgattgc attgttcttg agttatttcc agatgttggg 180
atgaactctt taatcgatta cttagataat ctaatcgatt aggtcattga attaatcgac 240
tatgctataa atttaatcga ttacaagcag ttataattgt tttctctata aataaccagc 300
ttgagttcac atctaagaat caagagatca atagaggatc ctccatacat ctcaaaaat 359

<210> 6170
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6170

ttacattgat gtttgtattg atgggaggag gttacatgcc attgttgctt taagagtaac 60
gtcccactgg taaaactaac tttccaaatg ttgacctcg caggaatggc cccgaggaat 120
cttgccctcat agaggteccac gaaggacaag gtggccgaat gaactatttt cgccccggag 180
tacgacagtc accgctttan gagcgttgta caccagcagc gcttcgaagc cattaatgga 240
tggtcatttc tccgggagcg acgcgtccag ctcaacgacg acgagtatac tgatttccag 300
gaataaatag ggcgccggcg gtgggcacca ct 332

<210> 6171
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6171

agcttgcgct ggccgctaag tgaggcgatg cactgggtct gtcttgtgcg ctaagcgagt 60
tctcctaate ttcatttttt tcttcaagtt tttgcatcaa ttttctcca aagcacttgt 120
aatntcttc ttttgaatct tgctggtaaa atattaacat gatattaaat ttctcattat 180
ctcattaaaa acaatagtaa agtaaaggaa ttctaatacat tgtagtcaa aattaactgt 240
caattaaact taaatttcac agttatcagt gccagcaaat ttaaatttga cactatgcac 300
cttgaagggt tacttcaacc atgcccattc ctcatgcagt atgggaggat ctctccttgg 360
attnttcatt gcctttgctt ctccaagg ctataccatg atcctgaaag cctcgtata 420
caatgttcaa aggtactact c 441

<210> 6172
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6172

gcatgagagg gagtcgccac ttcattatgg gtaacttagc cacttgtata tgcgcatggc 60
aatgcactat tgcactatcc actactgaag ttgactatat ttcagctact actcgatgct 120
ctcaaatact atggatccag atgcttctcg agaggactac aacatccatg agagtaacat 180
tggtatctat tctgatttac atgaagcgt actatcacgc tttctaaaaa tactaccttg 240
cttctcatgg acagcatctc ctaattacag actagggtcat acgataccat gttctaaagc 300
accatgctaa tatctttatt acaccgtta ctaacagata ancttggaat ggactgtata 360
aaggaatgat tcattatcta 380

<210> 6173
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6173

agcttattct cgatttgttg cnttggattt atcttganaa aatcgctgct tgagaagtgc 60
ctgtagtggt tttataagat ggtagtaag ggactgttgc ctgacgtcaa gaattgcaat 120
agggttctta gattgcttag ggatagggat aataacatcg acgttgcgag ggaggtttat 180

aatgtgatgg tggagtgtgg aatttgccct accgttggtta cttataaacac aatgttggat 240
 tccttttgca agacagggat gggttcangaa gctctgcagc ttttgtttca gatgcaggcg 300
 atgggtgtgtt cgcccaacga tgtcacgtat aatgttntgg tgaatggttt gtctcacagt 360
 ggggagatgg ag 372

<210> 6174
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 6174

tatcctagat gacacttctt ataccactaa gttcctaact ctatcacttt taaagtccta 60
 ctgagtgagt acaaagtga tgcagcagt ttaatgagta attaaacact cctttgtcgc 120
 tagaattata aaatcatgta catatcta atcaattcaa tattaatttc aggatgtgtc 180
 gagcaccatg tacttattta tgaaagctgc agaagtcact cggctgaact tggaagggat 240
 tacgaactgt atgattatatt ataatcattt gatgaagatt acaaacattg caactggatg 300
 gaaaactttt acacaatcac aaaatttgaa gctgaaactc atatatattt gagttccaga 360
 tgacactcta a 371

<210> 6175
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6175

agctntatatt ggtaaaacttc aatctagatg ggatgggtcct tttgttatta ctaatgtttt 60
 tttcccatgg tgcagttgag attaaaaatg aagttagcga caaagtcttc aaagtgaact 120
 taagcctttt catgaaagcc ccacaagcag aggaggaatt tatggcggat ctctctttgg 180
 ttntgccaat tttatgtgat gatgtgcctt gaatggcact tgagaagttt ccttccattt 240
 tcttttatat gttngtctt tgtttgcatt tcaagtgtgg ggggaagggt tagaanaatc 300
 tgtttttttg tttctgatat tatttggtttt gttttggctg gatttggttt tt 352

<210> 6176

<211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6176

tgcatcacat agtctgatgt cgcataagac acgaatttta acctttgtat ttattagcat 60
 ttaatcaaac attgtaggct cctgattcat cttaagacat aaatgtcttt tgacttaaca 120
 tgcatgctag tatttctagc tctccaagcc attattctca tttatgaaac tctatcagtt 180
 aaaactaagt atttctcaact tgccaggcga tgatactatc ttgcatagac tttgagaatt 240
 tttaactagg ttactaaatt atttgtcata cttaaataatg cccctatacc atatttttaa 300
 ttggatcttg aagttgcatg tgttntttta attaagtcca tagttgggtc ttaaaaacttg 360
 tatttgtttt ttaattagat cccaccaggy acctaatta 399

<210> 6177
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6177

agctataagt gaggccttgn gagaggatnt gtccaaaccc tccaacacca gtacttgtag 60
 taataaagct gacactacta ctactaaggc aaggataaga tgcagcatcg accaaagctt 120
 tctgaagaac aaatctgtaa aggggtaccac ggaacttctt gaacagcatg tgtggaggcc 180
 ccagagaggy ttgccagagc gtgcagtggc aattcttaaa gcttggttat ttgagcattt 240
 tcttcatccg tatgtttgtc tctatctatg tctcttatta ataattttct tgctccgtga 300
 ctctcttttc tgcattctaa agagacattt ggattgaatt gtggcctttt tttgctgttg 360
 ttgaatttct tttcagttac cctacagaca ctgataaaca catgctggct agtcaaacag 420
 gtctttcac 429

<210> 6178
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6178

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 gcgatgacct agctaagcta gtctgccccg ctaagcaagt tcatccatth tgttaaattt 120
 ctgggtttta ggatgaactc gctaagcgca ccctgttcga ctaagcgagt tcatcaagtt 180
 tgtttatatt tctgcaatth cgtatgaact cgctaagcca ctgcactacg gcttagctag 240
 tcattgaatt tatgctntat atthctaggt ttgcatgaac tcgctaagcc gaccatccgc 300
 gcttagcgag tacacttagt tagttctgca acttgagggc tgtttgcatt cttttcgtgg 360
 ctaagcgagt catgctcgct aagtccaaaa gtgcctctgg aataaaaattg ggctaagcga 420
 gtctgtctca ct 432

<210> 6179
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6179

tgggaccttg cttagtctct tgagaactgt gtttctagat gagtgcagct cttgtttaa 60
 acctanacc aagtcttgaa ggattaaact gcttaaccaa acccaagttg tttggacaag 120
 aaaaacatgt tcccaccagg tttaatccat tttgacgtat ttatcaatth tgtagtatct 180
 caatagttaa attaaaacta attcaatatt attataaacg ttgacctggg tatgggatta 240
 atccttgatc aaagtthaat cagacttgct actctttctt aagaatgtat tttgcgagaa 300
 ttaaaactaa gggtgggtaa gtaggcgggc ccaccccgcg taaaaccgct ccacataagt 360
 tcgtattggc aatagattgg accagtctgt cccgtactct tacacgg 407

<210> 6180
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6180

gaaaaaaga agtcgtatcc agtcaaggct tgagagacca tacaatttht ctaacgattt 60
 ctaattatgt gggccattaa gtctatcata tgctgacaat agccgagaag cccatgaatc 120
 tcttcggggg cggagtaggt gtctgccatc gccttggcct tggctaacaa tcggngaagt 180

tcttgactcc cgttcaaggt aagagcaaac cgatccatcc acatggttgc ctcttggtgt 240
aaagagtcga tcacccttcc tctagcctct ttttccgcat acacttgagc atactcatcc 300
gtgattctat gctcgtgggc ccgggctaga cctaactctt cttggtactt ggcgatgata 360
gctaacatgt tgggtctctgt ctgcat 387

<210> 6181
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6181

ttctctttcc catgtcaact atgcagcttg cgggtcaacat gaacggcctt cccaagatta 60
caaggatgtc agtatcttca gagatatcca taaccacaaa gtctgctggg aagataaaat 120
gttntaccct gaccaacact tcaatcactc cacatgacct ggtaatggag cggtcagcta 180
attgcaaagt cattcgagtg ggcataatct ccaactctcc cagccttctg cacatggaga 240
gtggcatcaa attaatagtg gcttcagat caatcat 277

<210> 6182
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6182

agcttgcgct gcccgctaag tgaggcgatg cactgtgtct gtcttggtgcg ctaagcgagt 60
tctcctaate ttcatntttt tcttcaagtt tttgcatcaa ttttctcca aagcacttgt 120
aattttcttc ttttgaatct tgctggtaaa atattaacat gatattaaat ttctcattat 180
ctcattaaaa acaatagtaa agtaaaggaa ttctaateat tgtagtcaa aattaactgt 240
caattaaact taaatttcac agttatcagt gccagcaaat ttaaatttga cactatgcac 300
cttgtaaggt tacttcaacc atgcccattc ctcatgcagt atgggaggat ctctccttgg 360
atttttcatt gccttgctt cttcccaagg ctataccatg atcctgaaag cctcggtata 420
caatggatcaa ggtactact ctc 443

<210> 6183
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 6183

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agtcgccact tcattatggg taacttgacc acttggatat gcgcatggca ttgccctatt 60
gcactgtcca ctactgaacg tgactctatt ccagctacta ctcgatgctc tcatatacta 120
tggatccaga tgcttctcga gacgagctac acatccatga gagtaacatt gttaactatc 180
tgacttacat gatgcgctac tatccagctt tctaaaaatc ctacattgca tctcatggac 240
agcatctcct aattacagac taggtcatac agaaaccatg ttcaaaagca ccatgctaata 300
agttttatta caccggttac taacgaatct ccttggaatg gactgtataa aggaatgatt 360
cattatctat aggtgcgtca cattagcttt atgtcacagg acatatac 407
```

<210> 6184
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6184

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agaacgcatg aacganaatg cttttcatgg tgctccgaan aagggttgag gatggagaat 60
cgactaaga aatcactacg catgggtcca aactcgtggg tggaggacgc atgaacgaaa 120
acgcaattca tgggggtccg aaaaagggtt gaggatggag aatcacacta agcaatcact 180
acgcatgggt ccaaactcgt ggggtggagga cgcatagaaca aaaacgcatt tcatgggggt 240
ccgaanaagg gttgagaatg gagaattaca ctaagcaatc actacgcatg gctccaaact 300
cgtgggtgga gggcgcatga acgaaaacgc aattcat 337
```

<210> 6185
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 6185

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aagattcaag attcaagaat caagagaaga cttaatcaag ataagtatga aaagggtttt 60
tcaaaaactg agtagcacat ggctatttct caaaacatgt ttaccaaaga gattttactc 120
```

tctggtaatc gattacaaaa ttgctgtaat cgattaccaa tagcataaat gatatgaaca 180
 agttttcaaa tgaatttcca acgttacaat tgattgcaa aagttgtaat cgattataat 240
 gtttttggtat atcgattacc agtgcctttg aacgttgaaa ttcaaattca aaagtgaaga 300
 gtcacatcct ttcacataaa agctatgtgt aatcgattac actgatttgg tagtcgatta 360
 cc 362

<210> 6186
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6186

agcttatgga gtagataaac aaaagcttgt tgaggagatt actcgtgcct atgcccacca 60
 aatatatatt gatggattnt tcaatggtga tctcatcca ggtactctct ctctctctcc 120
 ctctacgttt gtgcttatgt atgcatgtgc atatgatgta acacttccga ttgttccatg 180
 tgctcatgaa ctattttggc tctcttactg gaatcatcat aggaaatttt cttgtgagca 240
 aggaatctcc acatcgtcct attttacttg actttggcct tacaagaaa ctatcaagca 300
 ccattaagca agcacttgca aagatgtttt tggttcttgc tgaggtnctg tttggctttt 360
 gtgcttttca tgattatgtg gatactaata acatcatata 400

<210> 6187
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6187

ctcagcttca gtgaactang gagcagataa gaaggtctca cccggtatgt cgaaagctag 60
 aaagaggagc ctaggcaaaa gttagggaaa taaaatagga aaaacaaaat atgggcgtgt 120
 tatcaaaggt tttgtccaaa atctaaattg taaaagtctc taatcaatat ttgaaatgac 180
 acatgggtcat gtttcattat cccaaacact aatttatccc ttgttaccct ttctgagcca 240
 aagcatatit gttttctttt aaaacaacaa caacaacaac aaaaaccctg agtagcaacc 300
 accgctgagc cggcgggaag agcaaggcac acatcatatg catgaggtaa gctctacgtt 360

gggcaacaat gat

373

<210> 6188
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6188

catgagcaac tangtgtgtc ctactatgac ttgagaaaca aaggtgatca aataacaagc 60
agagatttaa aagttactag gttgcctcct agtagcgctt ctttaacgtc ttgagctgga 120
cgcttgatgg cttgtcggtc acggacctag taccttgctt acctttggct ctggacttgg 180
tcgcctattg ctcgccatg ggtcgtaagc aacgctctaa cctttttgtg gagagctgag 240
gtgaactcta gaggtgatgg cggtgcgtct 270

<210> 6189
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6189

ntgtgtggag cttcaatggt gaatgaggga ggaagaaaag caacgtgagg gagagggaga 60
gagagcttct gaaaatgtgg ggctgagtga agagagagag agttgctttt tggttntaaa 120
taaaaggggtt ttctcttttt ccattatttt attcaagctc tgccacatgt ccctatatga 180
ttggagcaaa aaggggccac tttctctttt tgactgtgac ccatacttag tcacaaagt 240
gagaaaaatc tgacctttga aacgctaaaa tcctgcctcg gtttgcgcgc cgtttctctg 300
attccagttt ctgcgctttc tctgcgtccg ccggggccag ttttcaaaag caagcaatat 360
atatatcaaa acgctcagaa taaaaccccg agcgt 395

<210> 6190
<211> 252
<212> DNA
<213> Glycine max

<400> 6190

tcccggcaac attgtttgta ttaatgaatt caacattatc cttgaatatc agtaaagctt 60

tttgccttc tgcagcatcc ttatatacct tcccatatct cttcatccac tgctcatgtc 120
 tttcggacat ggatgcctca tggagggttc gggacattac ttgggaagtg cacattgaga 180
 gaaggagcac aagagctaaa atgtgctgct ttttgcccat ggaacccatg tcttttctca 240
 acaatgtatc aa 252

<210> 6191
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6191

tatagaatat ataataaag aacagtgact attgaagagt ctatacatgt ttcctttgat 60
 gagcctaatt ccattcttgc aaggaaggat tatttagatg atatttcaga ttccttagaa 120
 gatacacata ttcattgaaa tgactctaaa gaaaaagatg aacgaagcaa tgaggattct 180
 caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240
 catcncctcg acaacattat tggatgata tcagaagggg tcacaactag acattctctt 300
 atagatttat gcaagaatat ggctcttgta tctatgattg aacctaacaa tatgggagaa 360
 gtcatagtag atgataactg ga 382

<210> 6192
 <211> 260
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6192

acttgtagga ttcaatntgg gaaaaattgg atgagggcaa gtgtgatttc gaaaatctgc 60
 actttatgca gaattttgct gtcaaataatg tgcagcagaa ttttggcttt gtgcagaaaa 120
 tgttggtgat ttgttggttc tggaaagagt agtacagatt gggttctgga cgttttcttg 180
 cagatcccaa cggtcacaat gtaaacttat gtgctagaga ctttcagaaa aattttcaag 240
 tcatccaac ggttaacgaa 260

<210> 6193
 <211> 414
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6193

tcacccttcg tcccaaactt agtccanact tatcttcttt taactttctca tcctctagcc 60
ttcaccactt ctctcgacc tctatttccc atctccttcc tttctttttc gattccagtt 120
gctagtcatt ataggatctc cattggagct catgcttcca agaagatata acatatgtca 180
acctatatct aaacatgcaa tccaacttca tataaatttt ttcataaaat tagtaaatac 240
tcaacaaaat atcatgggtg attattcgta cttccattat gatgggttcgc ttatcctcta 300
cgaccaccaa aatgggtagt gagtcatata ccacctacat cttcctcact acctnctctc 360
tttgatgatc agtaacttat ggcgtatgtg gtatgggttaa ggggtgtcatc attg 414

<210> 6194

<211> 633

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6194

tcaccacttc tccacnaaca tcttctgtt tgtnnnngea nttcatatct ctccactaca 60
ctcctnntac tcacaccccc cccgacaact gggngtgagt tctgtcgtt gcagcgacnc 120
tnnanagtng acctgcaagc atgcnaagct tctacccta tntgtggcta tagaatgagg 180
ggttatgatg tgtatataag aaaagcggcg ctcaacgctt tccttagggc gacatcctct 240
cttcctctcc tgcgaaanact tgctggagcg aaataatacc ttcctatgat agaaaaatat 300
catagcgga gggcgcttgc cgtaaccggt ttcgtgagtt attacgcaa aattctcgac 360
cgttcttcaa gattcatcgg tcggtcttcg tttgtttgag tcttcaacgg gtaaagacct 420
ccaaccgagc ttttcaattt attctatgta cccgtggtcg gccacatttt cgttcatgta 480
ttgttattct cgggtgcatt ctctatatat accccccttt gacgaggtaa gccatcattt 540
aaggatttct cgcttaacgg aaaatacaat aacttcacc atcgctgaat ggatcaccgg 600
taatccgta caaagaatcc gaccgtcgcc tcc 633

<210> 6195

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6195

agcttgtaat tttcttattg cctttgcttg ttattacatg gttnttatag aattcctaata 60
atggaataat cctaggaata ttacaataac cgtttttattg ataagaattg ctcagcagga 120
tcacaattcc aagcaaggcg atctgggaaa ggatttgcag aagcttctgt tttggcagga 180
ttcttcaaac gaagtcgtga aggtaagtgg gcctcttcac cttacgtttg ggctttactt 240
cgttatgcac cccctgtttt gtaattccca cctccgagct catctaagag ctcacttatt 300
gtgggaattg ngaactgggc ttggaccatg acagcattga gggccctgta gtccatacag 360
aaccttcagc tcccatcatg tttccttaca aggaggacga gtgaggagaa agggcttgta 420
ctangttgga tcaatccttt ttgaagcatg a 451

<210> 6196

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6196

acactatgat actcagctta ccactgtccg gttactcctt gcccttggtg ctcttcataa 60
ctggcacctt caacaattgg atgtaaaca tgctttcctt catggngatc ttaacgaaga 120
ggtttatatg aagcttcctc caggacttat tgtggataat cccaaccttg tttgtcgcct 180
ttagcattcc ttatatgggc tcaaacaagc cagtcgctaa tggttcacac ggctctcgtc 240
atttcttctc tccacagat tccgacgatc ttcagcagat cactcgttta tatatactct 300
gataatgacc at 312

<210> 6197

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6197

aataggggga gaagtgaaga agaaaggggt tcagcttctt aggcacttct ctctctctcg 60
aaattgctga ggaaaattag ttccatgaag aaaattcaag ccgaggcgct tccgtaacgt 120

ttcogtgagt aattacgcga agattctcga ccgttcttca agattcatcg ttcgttcttc 180
 gttttcttga gtcttcaacg ggtaagtacc tcaaaccgag cttttcaatt cattctatgt 240
 acccgtggtg gtccacattn tgtttcatgt atttttattc tcngtttcat tctctttnta 300
 taccoccttt tgacgtgttt aagccattta ttttaagtcac ttctcgctta atcntaaaaa 360
 taaaataaat t 371

<210> 6198
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 6198

tattggcgat cagaatagcc attccttgga ttatagggtt gaaccaact catgctttta 60
 ccacaaggtt catcaagtca agttgaaata tggaagtaac cgtcttgcta aattggggcg 120
 aaagatgaat cgagtcacat cactgcttcg tctactgcc aacatattta ggattgttga 180
 tgtccttggg acttccaggt tcaccttgac aaaacggatc atgttgaaaa tctaaattga 240
 ttcagcccca tatcctgcgt aaaaattcgc aataacttcaa ctgtacatca ttcgcatgca 300
 tccatgc 307

<210> 6199
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6199

gctatgctgc ntatattaca atagaacttc cttcacctca gcagcanaat caaccacagc 60
 agaacaatta tgacctctcc agcaacaaat acaaccctgg atggaggaat caccctaadc 120
 tcagatgggc tagccctcag caataacaac agcagcctgc tccttccttc caaaatgttg 180
 ctggcccaag cagaccatac attcctccac caatccaaca acagcaacag cccttgaaac 240
 agccaacagt tgaggctcct ccacaacctt cctcgaaga acttgtaggg caaatgacta 300
 tgcagaacat gcagtttcaa caagagacca gagcttccat ttagagcttg actaatcaga 360
 tgggacaatt agctacacaa ttgaatcaac aacagtccca gaattctgac aagctacctt 420

ctcaagct

428

<210> 6200

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6200

gtgtctttca tatggctatg aataggaata gcactaatct cttccatgaa agccactgct 60

actccatcct catagtcaaa taggcgcctg ctccacttca gatcccagct ccaagtattc 120

tgagaaaagc tgcccatcct ggaaataaga tcattctgct gcttgctgat cagaaaaagc 180

tgattatatg tctgctgaag gttgcagtcc tccccagcc aattatcttt ccaaaaccta 240

attntttccc cacatccaac ctccatccc atattctgat ggatagtact gaagtcattg 300

cgctgattta actttctaag atccctccac catttagaat ccagcaatg gactctacca 360

ttttgtagag ctgaccacc ttcatgggtg gaatttaca ccctgacca cagttgattc 420

tga 423

<210> 6201

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6201

agcttcttat ccaaggetca tcttggtggt gaagctcctt cttccatggc ttattcccta 60

gtggatggcg cctcccttct cctcttctcc tttgccttcc gctgcatctc catggtgaaa 120

aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180

gcaagcttcc atcatgtacc cctgccaagc actttggagg gccctcagtt ntgcccacaa 240

ccacaaccct tgcattgtgc aatgggaaga atccctcctg ctatggcaga gaagggaaag 300

ttggatcata t 311

<210> 6202

<211> 85

<212> DNA

<213> Glycine max

<400> 6202

agcatgagag ggagtcgcca cttcattatg ggtaacttag ccacttggat atgcgcaagg 60
caatgtccta ttgcactatc cacta 85

<210> 6203

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6203

agcttctatg gaagctgaat ctttgaactt attgaggtcc ttcaatgggtg attntcaacc 60
atggagttgc tgcgaaagat aaaggagaag aggtgagcgg aggtgccatc cactagggaa 120
taagccatgg aagaaggagc ttcaccacca agagtgtctt ggataagaag ctttgagagg 180
aagcttcaat ggaggaggag aatgagagag aaagaggggg gcacgaaatt gaaagagaaa 240
aaaagggaga gaagttgaac tttgaagtgt gtctcataag tttcacattc atcaaagttg 300
taacaagtgt tacaatatatt tctatttata gcctaggtca ctaactaaat gaaattcact 360
ttcatttcat gtgaatctaa gaggaatatt ccaaggatat gccanaggca tattagcata 420
ttccaaanat atgccaaaga catcttaaca 450

<210> 6204

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6204

cataaacaaa aaagaattgt gtggttgatt acacaatgac taacattata tcatcttaca 60
gacgaataaa caatttatgc acttagtctt ttctctcaag aagaacaaag tgtnntgtga 120
gttttttttaa actttacaag aatttacaca aagaactttt acacaaagaa tgaaataatg 180
agcgcttcan attgtacttc atatcttcaa atcttttggt ttatataggt ctctttcaat 240
caagtatttg ttgtctctaa atagacatat ttctctttt aagctcgcat ca gaana 300
tggtcattgg gcattcgatg cacgtacttc ttcatgttga gaaaccaatt ntcacgttg 360
gtgtgtgaac actat 375

catcctatcc ggaaccatat cagaatagta ctgatactgc ctaacgaagg caaccattag 240
 gtccttccaa gtatggactc gcgaagggtc ctcgttaatg taccaaggaa cagctacccc 300
 agtaagactt tcttgga 317

<210> 6208
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6208

ctcagcttgc ttctacatat gatgttctag aataattgag tatcaaagt ggtaatcgat 60
 tatttcgtca cagagagctt ctaaagtgtc caagcgcaat ctaatcgatt actaaatgtg 120
 gtaattgatt atctagagcc acaaagcctt ccttcttcta aaatgggtta tattatcgat 180
 tactaaaact ggtaatcaat taattcaatg actttagtca aatttcagaa agaagttagt 240
 tttgttgctt gttctaacac tgtgtaattg attaaataac cttgtaattg attatactat 300
 gttgaactca ttatttctaa gaaacttga gatcnatcca tctatctatc tatcatgttt 360
 gattcatgtt gaaacttttg gcaagcgtac caattgttgt atagggtttac atttat 416

<210> 6209
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6209

gctaagcgag cttaactnta tctattttct tcataattcc tgccgctcaa gcactaanaa 60
 tgactcgctn gagaaaggca tggcaatgtc tcttcattct gattatgact tagcttgctt 120
 aagcgcacaa catgccacac ttaagcgaga aggctcagtt tcttttagctg acttaaattc 180
 ctataagaga actccatata aacatcaaaa agtctaanaa acttcaaadc ctaaggttct 240
 tatgtaatta attattcata cttcaaccta atcttaaggt agaacaagc tatatgtatc 300
 ataaatgtca gataattacc tcaaatcata tgtgaaatta agttctattt 350

<210> 6210
 <211> 379
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6210

tgctaccag ctcgccagg cgagctcagc tctaccaagc gaggtangtt gcttcctcca 60
gaagcaaccg ccttctggag gaatattctg gaaggcctaa gtgggcctga ttgctatttg 120
caccgccatt atttttaaat acaccccctc gctttttttg gtgattcttt ttcgtaacg 180
ttacgaaact ttacgaattt cgtaacaatg cttttttttc tttccgtaat gttatgaaac 240
cttacggatt acgtagtcat ccctttgtaa cctttcagaa ggtacagaaa tttatgaatt 300
gtgcactaac actttctttt aatttcggc atgtcacaga acttcacgaa tggcctaacg 360
atggatgcca agtaccttg 379

<210> 6211

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6211

agctnttcaa agccaatttc atcagagaag tcaggtaact tacttgactc gccatcgctc 60
tcatgggtcaa aatggccaat ggcaagtggc gaatgtgcac caactacacg tatcttaaca 120
agctagttga tggagcgtcc gagttccaag tactgagctt cctggatgcc tacacatgat 180
acaattagat ccggatgcat gccctacatg aagagaaaaat gacattcatc tttgaagatg 240
ccaacttctg ttatagggtc atgccctttg gcctataaca tgtaagcact acatactaga 300
gagtgatgga ccatantatt caatagcaaa ttggatgaaa tgtcgaggtc tgcgtcaatg 360
acatgggtcat caaatcacat accactagcc cacatgtg 398

<210> 6212

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6212

agcttatgct cggatatcan aagtttcgtt atgagcaagg ataacttctt atgtacttgg 60
atgtagaana aataacaata aagtaaatcc atgtttatgc tatgagaaac ttctcttata 120

attgtaaggt tccatgaatc taagggtttt ataaacactt tggatgaatgg agaaagggtta 180
gctctaattc atagcgtttt ggctaaggaa gactattcaa aatctggggg attattctta 240
agagactcaa ctcttctaatt cttccatcta ttgggtggctt ctcttccttg caaggggctc 300
cttcaaataa agatccttaa atataacc 327

<210> 6213
<211> 390
<212> DNA
<213> Glycine max

<400> 6213

tctccacttt acatccaacg catgagttct agtcaggata agagcaggac atcacaatca 60
ggacggattt ctttcaaggg gtattttatt tctttatagt ttagacaaaa ttcagctctc 120
atTTTTgaac tatacttact taactgactg ctaaaaaata tattttgaat tgaaagcttc 180
tgtgttttgc atacatttga ttcacaagat atatctccta ttgatttatt gaagaatggt 240
tcccttacac atttaaactc attatttgtg cgtgaaatgt tttccattct attatagttt 300
aaaagggaga tctctgagtt ctgcagagga gaagtccata gttgaacctg aggttttgat 360
gaccaaggaa atagagtggg ctaacaattt 390

<210> 6214
<211> 383
<212> DNA
<213> Glycine max

<400> 6214

agcttccttg ctagcctctg actaccatgt tctctgcttt agtcattgac attgccacag 60
aagactaaat tatggacatc caacaaacag acccaccttc aaaagtaaag acatacctta 120
ttgtagacct attgtacct ttaggtacct taagatctac ttcaatgctt tacaatgttg 180
ctttcatggg tcaaacataa acttgcatac ttgacttaca atgtgtcaaa tctgatttgg 240
tgcacactat aacatacatc aagcaaccag ctgtactgac atataagaaa cctatgacat 300
gtactccacc ttagtatctg tcttcagacg ttgatctaaa aaaacttaaa agtgttttat 360
ttcaaaatca caagtggagt tat 383

<210> 6215
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6215

ntagatacaa atacagcgtg tattcttata ccagcagaat tttctgccac tgaaactcac 60
 aagaattggt aattagaaat tcccacaata tgaagtaggt gtgtggaaac atatacaatt 120
 attatattca agataacaag aaaagtattc aaggataagt tatctatctt taatagccat 180
 tcttttacta tataattcat atgctggaca agtgtctatt ttttgctcat acattctgta 240
 taggttggca tcctttccaa aagttctacc ttgataatat attccatcaa ctacacataa 300
 acccctaata catcataagt ttgtccaaag tctcagactg gtgttcaatc attgctgaca 360
 taccaatttc aatggtcaca aagaagattg ccactatgga gaacaatgga cacaacttgt 420
 tcttcagcat tccatttaac ata 443

<210> 6216
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6216

tacttatgtg gcagggcggg cttctttcac tctcttgtct ccaacgcgag cnttgaccat 60
 cgctcttctt tgccgcgatg cttctcttca tatccgcctg agcggggctta tagcctaaac 120
 catacttccc actatttccct ttggcattta tcaggctagt tatgccgtcg ttgtctttgc 180
 ctaaaccat tccgggttcg taaccgttcc ccaacataac tcggggccatc attactgctg 240
 catcggacag gcaaggctgc ccaaagaagg agtccacgga ggaaatgctg accacctcaa 300
 aagactggaa agcgggttct aatgattctt ctgcggcttc tacataaggc atagaggatg 360
 ggcagctcac caagatgtct ctctcgctg acacgatga 399

<210> 6217
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 6217

tatacagata tacatatattt ccagcaacat cttgatggct ctattcaata caacatacat 60
cacatggaaa tattagatta cagccagaca caatgcatag atgctactgt gttgggtgct 120
ttgctacatt gccacatgat tttctggtac aagaactggt tggaggggat caaattcaat 180
aaagaatgtc cgaatcttca tcggagcaag ttcaaccacc aacttcgtag gatcaacagg 240
tcctcctctc accaccttcg gctcttcaga ggagccttct accttccaat ctagcttctc 300
cttttccatt tgagctcttt cttgattagc agacaaactc atctctgtca ctttattgat 360
ctgaaaagat tgagtagtca aaaggaaact atacatgagt acatgatgtg tgaaaaatac 420
taacttgga 429

<210> 6218
<211> 440
<212> DNA
<213> Glycine max

<400> 6218

atcttcttgc taagccaatc tgctatctta gtgagcgtcc gctaagcaca acactcatgg 60
gctaagcgcg aggaagactc tggaagaaga tgagttgtac aggttcacta agcacattgc 120
tttatctcac taagcgcacc acttcagtcc atccactaag tgagaaaggc acgcgctaag 180
ccaaaattca ctaatgtgcg ctaagtgggt cataattgcg cagagcgcac gagcacgaac 240
aaggccacct atttaaacca gaaatcagat tttgtgaagg gagtttgggc tgggattcag 300
agctttgcat gtctagagat tctagagaga taaagggtcca agttctagag agttctgaga 360
gattttgctg tgtgaagatc tgtagagact aaagctggaa gcatgagccc ggttgagagc 420
ttgagatgag cttgtgagtg 440

<210> 6219
<211> 396
<212> DNA
<213> Glycine max

<400> 6219

tcaatggagc tggcatcatt tactcagccc cctcacgcct atttatagct taaaagggca 60
cttgggtggac ttgcaactcg cccaggtgag ttgttgcttc actctaaagt aacttggctc 120
gccaagaga gctggttact tcaaccctaa gccatttggg ggcccaggcc agccagaggc 180

tatccaaggc gagccaagggt ccaaaaaatt gcttggaatg accctttttac ccctcccttt 240
 ggggtattatc tgcatacctta accaaaacgt cgaacgatct ttcgtcttgc atggtaaccg 300
 atgtcgaacg gcttaattcg gctagcgaga atcaaaaatat ccacgaatga tagtccctgg 360
 acgaaattag ggtctgacag tagcaaagga tatata 396

<210> 6220
 <211> 130
 <212> DNA
 <213> Glycine max

<400> 6220

agaaactacg ctgctaccat ggagctccta aatctcccac actgttgttg tgtccattct 60
 tggatgacct tgatgttgtc aggggtccact tggaccccat ttctaccaac gacaaaccct 120
 aagaaaaata 130

<210> 6221
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 6221

aggctacaca atcggagaag aacttgacgc ctgcacaagg tgagagcata ccgatccatg 60
 cacacggccg actccagggt ggaagagtcg agcaccctta cactagccac tctttacgca 120
 gatactcgag catactcata cgtgattcta tgctcgcggg cc 162

<210> 6222
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6222

tcacgtactg tctcgtgggg ggtatgaact gctngacaag anacttatgg aggagaagag 60
 caagcgtgga catgaggaac attcgtgtac tgaaagccca aactcaacg tcgaccacc 120
 atccccagtt gcaagacact tgaagtggaa gatcgccgc actaagcggc atggccaaat 180
 gacgtctgaa gtggcacaag aaattgtaga caaaattgtc agttcatata ttttttgggt 240

tactgtcatt ggcaaataat gggttagctaa cctagtcaaa tttgttttat tcaaattcaa 300
 caattgtata tgcatgcagg attcattaca ggaacaagca acacagggga gt 352

<210> 6223
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6223

aaaggtgttt tgatgataac atatgatgac aacanaagat gatcacaaag gtgatgaaca 60
 aaaagctcaa aagatcaaag aacaactcaa gtgaatcaaa gaacatctca agtgaatcaa 120
 gaacaagtca agagttcaag aatcaagaag aattcaagac tcaataagaa agcctagaat 180
 caagaatcaa gaagaattca agactcaaga agaaaaccta gaatcaagaa tcaagattca 240
 agatctcaag aatcaagatc aagattcaag actcaagatt caagaataaa gaaaagactc 300
 aatcaagata agtattaaaa ttttttttaa aactttgaat agcacttgag ttttttacia 360
 aacctttacc aaagagtttt tactctctgg caatcgatta ccatattggt gtaatcgatt 420
 accagtagca aaatgacggt gag 443

<210> 6224
 <211> 307
 <212> DNA
 <213> Glycine max
 <400> 6224

cctaaagaag ctagagctta gctacacaca cttctctaag agctaagctc acctccttga 60
 gatgagaagc tagaacttag ctacaccccc ccctataata gctaagctca ccgccatggc 120
 aaaatacatg ataatacaaa aaaaaaagcc cctactacaa agactactca caatgcctcg 180
 aaagacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc taaacagagt 240
 gaaaaaccca tactaatatc gacaaagata agcgggctga tacttaggcc aaggcggtaa 300
 aatctac 307

<210> 6225
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 6225

gagaacaata tctgtatgaa cagagaagag ctgtgtatcc acgaaaagct gtttagcaca 60
 agacaacaaa ggagaaatcc gcattagtaa tatgagaata aatacctaag aacatgaagg 120
 caatgcaaag atagaaatgt gtcaataaat tacacagata agcatgccta aattatttaa 180
 tcacgctgac aaataagtac tgtactacat ttaatccgag tataggtata aactactgct 240
 aattatacaa attcatttgg cttcctacac agatatgcag tagagaaatc aacaattaca 300
 tccgtctaca cgtcagaaaa agttaattac cctagcaaga actacatgga aatccagctg 360
 agcaagtagc 370

<210> 6226

<211> 180

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6226

gaggttntga ttgatcaaaa agaagaanct acttcatacc gatatgccct taggcacggc 60
 aatacataac atagaaatca canctcgaaa gggtaggacca atagctagag cagcaggtgc 120
 tgtagcgaac ctaattgcaa aagaggggaa atcggccaca ttagaattac cttctgggga 180

<210> 6227

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6227

nggtgtgtaa tgatcatgag cattgaaact aagcttgccct tggtagaca tgattgtgta 60
 catgattcgc gacnggtagt attcaatttg cgaaaaattg gatgagggaag agagtggttt 120
 tcgtaatccg cctccaggca gacaactatc ttgaataaag cgggtggaata aacctattgg 180
 gcgaggcggc ccaccgcgct catgaatcat acccgggat ggccgccccca atctactcgt 240
 gaatttnaga aggggacata tttagatcaa cgtcttcac cctctcttaa acctctcgta 300
 tacattcact ctccctacac ctctccatt tctcttcca ccccccta ctcacatcat 360
 tccactctaa catagctcct cgcttgcgct aatccccacc ctcttctcc tctccacct 420

attctctctt gatctctctc tccactctc ctccactaac tccacgctgg cgctgac 477

<210> 6228
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6228

cttgtgtgta aagagtcaca acttanaatt cttttttcaa gtctaaagag tcacaactct 60
 ttagaaaaat aattttgtaa tcaattacac cattttaata atcaattatc agtaagggaat 120
 tttcaaaaat aactcccaac agtcacatct attcaaatgt ttttgaatgg ccatcaaagg 180
 cttatatata ggtgacttgg gacacaaaat ttctcaagag tttttactgc acaaagagtc 240
 tcactctctc aaaaactaaa ttatcttctc ctctaaaaca ttctttggcc aaacacttgc 300
 aaattcaata aggaatcttg agtgatcttc aattgttata tctttatctt anaagagaga 360
 attcttcttc ttctcttctt tattcaaaga gattgattaa gggaccgaga gtctcttgaa 420
 gttgtaaaaa ttcttgacac 440

<210> 6229
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6229

gctacacaaa tccngtctaa tagctaagct caccctcatg cgcaaaaata catgaaaata 60
 aaaaaaaagc tcctactaca aagactaccc aaaatgccct gaaatacaag gcttaaacc 120
 tataatacaa gaatggccaa aatacaaggc ctaaaagaag gaaaaaccta ttctaatt 180
 taaaagata agtgggctca tacttagccc atgggctcga aatctaccct aaggctcatg 240
 agaaccctag ggcttccct tggatctctg gcccaattta cttagagtct tctatccaat 300
 gcccttaca ggtagaattg catcagtagg gtcggtgctg cttaccctca acgatca 357

<210> 6230
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 6230

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agtaccaaga agagatacgn ctagcgacgt gttatgagca tataatcgcc gacgaatatg   60
cccaagtata ctcggaaaaa gaggctagag gaacgggtgat tgactcttta caccaagagg   120
caaccatgtg gatggatcgg tttgctctta ccttgaacgg gagtcaagaa ctttcccgat   180
agttagccaa ggccaaggcg atggcagaca cctactacgc cccgaagaga ttcattgggct   240
tctcggctat tgtcagcata tgatagactt aatggccac ataattagca attcgtagga   300
tacctgtatg gtctctc                                     317

```

<210> 6231
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6231

```

taatatcacc aggaactatc acattaacaa aatcacagcc tctaagattt cgacanatta   60
ttaggtagcc ttgaagcatt atgtttttat gattctaate taccattctc tntatatata   120
atacataact atatttttta atttgtaatt tatttataat attcaattat gttatgtaaa   180
aaaatagtta aaataattaa cattataatg attttagact atctaataat ttctagtaag   240
attttaatgt ataacanacc tggaagcaca gaaggctacc acataatccg tcccagaaca   300
agtgaaaata ctagttggat catcataag                                     329

```

<210> 6232
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6232

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ctacattcan atgcaaggat aaaaagactt gattgaatgg acctctcatg gtctcaagtg   60
tgtttacaac tcaataatca tataaccttc agataaactt tgcttaagaa acaaaaactg   120
aggtttgtaa gttgtaaaag ttcattcaaa cattttattgg atctgagaac acaagggtgg   180
tatatataga gaaaatagtt ataaccatct gtaattgatt aaattggcaa tgtaattgat   240

```

tattacgtga aagtaatcaa ttatatatttc caattaatcg attaaagtgt tcttccccaa 300
 ttctagaaaa tataattgat tattttcaca taataattga ttacattgcc aatttaattg 360
 attaaagtgt tcttccccaa ttttgaaaa cattcaagaa caatgtaatt ggttaaagtt 420
 ttcttaatca cttctaggaa cactntcaag aatgatgtaa tcaattacta ta 472

<210> 6233
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6233

ggctctgcc agtgaaagga tcggtgtggg tcttatataa ggcaaattta gtcacacctgc 60
 ttggacgaat gagaaaactg gggcaaata agagggtgag gatgaaggaa aaacccatgc 120
 tgtgactgcc attcctatac agccaagttt cccaccaacc caaaaatgtc attactcaac 180
 ccttctcctt acctaccgcc catttatcca caaaggccat ccctaaatca accacaaagt 240
 atgtctaccg cacttccaat gacgaacacc acctttagca caaaccaaaa acaccaacca 300
 aaaaatataa tttgcagcga agagcctgta ggattcacc caaattctgg tgtcatatgc 360
 taacttgctc ccatactctac ttgataatgc aatggtagcc ataaccctg ctaggttccc 420
 tcanaccccc atttttctga ggatacgact cgaacgcaac atgtgcata 469

<210> 6234
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6234

tgtctcagcg tttatgcgag acagagacca acatgttagc tattatcgcc aagtaccaag 60
 aagagttang tctagccacg gccacgagc atagaatcg ggacgaatat gcccaagtat 120
 acgcggaaaa agaggctaga ggaagggtga ttgactctnt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
 aggccaaggc gatggcagac acctactccg cccogaagag attcatgggc ttctcggeta 300
 ttgtcagcat atgatagact taatggccca cataattaga aatcgtagg aaacttgtat 360

ggctctctcag accttgacta gatac

385

<210> 6235

<211> 215

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6235

catatcgnc a ctt aagcatc ggagtacttt gctctacaca gcccttcacc tcgtcgtaac 60

agagacatcc atgcgagctc acgagtaaag tctgataccc cataaaggct tgacacccca 120

tgtttggtata gtcaatacgg atctgccgag atctcatatt taggtatgaa caacgtgtaa 180

gttatttgcg agctgcagcg agaagcctac attat 215

<210> 6236

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6236

caatagtgat ggtctaattg tcacttacat ctaanaatat ttatttcatg ttggcgtagt 60

gaacaatcta ccgctatttt ggcattttgt cgtagcgaga aataaattca agttctatgt 120

taaggtaa at agagacaaaa taatacccta atttatgtca tgtcttattt cttatttaag 180

atatttatgt tttttttaca tacatatttt gttttctttc ctttcaattt cttcataatc 240

aaattagaga aaagaaaaaa tccaataatt ttcttatatc attgaattta tacattaaaa 300

tatcaattat gtgaatattg tgacacccat ttactacata gtttaataatt aaataaacia 360

tttatctaan aatgaattat tgaatttaag actttcataa acatgtgaca aatgtcatca 420

catatgtaac tcagatatat actaaaact 449

<210> 6237

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6237

tataaagttt ccagacacia tcta atcgat tactaaatgt ggttattggt atctcgagcc 60

acanagtctt ccttcttcta naactggctt tataatcaat tactaaattg ataattgatt 120
 aattcgatga ctttagccaa atttgaaata gaagtgactt tagccaaatt aagcaacaca 180
 tacaccaatt aacccttgt tcattaagca caaacataat ttaagcacat aggcaattaa 240
 ttgaacacga agtgtgcaca gattaacaga atgcatgtgg gttaattggt gaagggaaaa 300
 ccgataggag agcaacatta aaaatagaac ctcanagaga gttacgcttc ttcctcagag 360
 ggaaacaaca ctagaaattht agccttccat aagttcaatg aaagcagana acataaatga 420
 aactaaaggc agaaaacata aatgaagcta aaggcagaan acaaaaatga aactaaagg 479

<210> 6238
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 6238

atgttatcta tatttggtga atgtggtgct ccataattat aatcgactt catagtggag 60
 atattttgct ggacttggtc ccgtgggggt tttccacgtt aaaaatatct tgggtgttatt 120
 cttcttctct tactctccga atttattttt cttattgccc atctaaatca catagagagg 180
 gaaatttatt cttggtattc tccaacactt atgggtatgta gagtataata ccctagtga 240
 agcaaata tgtaacaaaa aaattataca acaaacagat agatgggtcat ttgaactact 300
 tagcagtata taatattctc ctgtgtaccc atagcaagca cttgcctcct actacttctc 360
 acatgtcgca cataacattg tctaaacaca tttatagagc cactctttct tataccacac 420
 tgccttaatg aagaagca 438

<210> 6239
 <211> 230
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6239

tctaactntc taagttgtaa ttgcagttca gttatgatga catcngatta ttgcctattg 60
 gtaatgacta atgaatggta tgcgccatgt tttctttcgc ggcgggtggng agtgttcaaa 120
 cggcgccact tataaagaag gggctaattg gctatatatg catcagtgcc tgcactctgct 180

ggatccaaat tctatcatat catttttgcg ggcacctttc tttctcgtac 230

<210> 6240
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6240

agtatgtctg atcattaatg atacactatt tttcatacac attgtttcaa gcaatgacta 60
 atttattcag gtgtctctgc tttaatcgat taccatgtga tataatcaat tatttctctt 120
 tctttaagta attcagatgt ggacaaaaac actntaatcg attactatca gtatttaatc 180
 aattacattg ttcttgagtt ggttcagat attgggaaga atacttaa atcgattaacaa 240
 gataatttaa tcaattactt cattgaatta atcgattacc tcgtagattt aatcgattgc 300
 aggcggttat aacagtgggt tctataaata actagctttt gttacttaaa aaagaattgg 360
 agggcttcaa ataacaaata tgggtctaatg agcaagatc 399

<210> 6241
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6241

acttaagtga ttattttata attttaatag ataaatgact aaattatcag ttaanaataa 60
 aagttaaaga accaaatgag taatntaatc aaataattgt gatgtttgac aacactcaca 120
 agacttatat attgtaattn tgataattca ttaagatata atggataata ttaattcttc 180
 tcactttttg cattaaaaca ttctcactaa ttatttaatc ttttcttttt aacataaaaag 240
 gcaaaacctc gctagataga gagagaggac ttaaatttgt gttgataaaa tttactgtga 300
 agcttattaa aatatttata aaaatcataa atcattttta caagcttaac aaaatacata 360
 ctcatattta ctataatcaa ataagtttca taaaaactcc 400

<210> 6242
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 6242

gagagatctt cattctgggt taattgatta ctgattatct gtttatcgat tacactattc 60
agttgagacc atgtctcatt ttcattgagtc tctactttta tcaattacca agtgattgta 120
atcgattaca tcgttcttga aagtgttccc agtagtgatc aagaaaactt tgatcgatta 180
aatcaagagt ctaatcgatt acattgttct tgaaagcttt ctaggtgttg ggaagaacac 240
tttcatcgat taaaaatgat aatctaattg attacttctt taaaataatc gattaatgtg 300
gcaatttaat cgattacatg caattatgat tggtttctct atatatagcc accttgtgtt 360
ctcagctctt acgactccac attctagtct tcattcctga agcattcatg gttaaagtga 420
gtcattaaca tcttgtgaga tcaagaagag atccattca 459

<210> 6243

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6243

agctcgccca ggcgagctca gctagcccag gcgagtatgg ttgcttctc cagaagtaac 60
agccttctgg agggcccaag tgggcctggg tgctatttgc acccccattt ttactaagta 120
cacccattg cctttttttt tgtgattctt ttttcgtaaa gttacggaaa cttatgaatt 180
tcgtaacgat acttggtttc tttccgtaat gttacggaa cttgcggatt acataatcat 240
ccccttttgg acttacggaa tgttacggaa cctcactaat catccncttt tttgatttcc 300
gggtgtgtcac ggaaccttac ggattgtgca tcaatatttt cttttgtttt ccggcatgtc 360
ccggaatttc acaaattgcc taatgatggg tgccaagcac ctcac 405

<210> 6244

<211> 473

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6244

tttatcccta taaacanact ctatntttgt attattaatc ctttanataa atcttattat 60
agttatattt gaaaagaaat ttcattctaat ctctaacttt ttttcctaac tgaacaactc 120

atttgtcatt tttaatagtt tttaacattt ttttaaacac tacttgaaat aatattttta 180
 aaatattagt ttctaacttt tttatatattt ctttcttttc atccttaata tatttatcag 240
 tttttctact tatcattttt aaataaatca taattttatt attatttaat tatttcaaca 300
 attaatttta ctaaacactt gtaatttaat aagtagaatt ttcaattttc aactaattgt 360
 taatttaca attaaatttt aactaaaatt attgaacata atttatatta tcaggcacat 420
 catcatcaaa aaatttgaca tganaataac aaataagttt tttttgaaat ttg 473

<210> 6245
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 6245

atggacttac cttgaataat tcctttgtag tctctttgag ccttgcttac ctttccttgt 60
 tttgaagctc actacaagcc ttaagtgaat aaccatgata tcaccatata ctttaaggaat 120
 tttggagctt tggaattgct ttgggaatag agcgtggggg gtttttgttt tattggacaa 180
 tttgttttgt tggtatgct tcatgatgta ttctgcgcca tacttgatgt acattgtata 240
 ttggttaaatt gctggacatg ctgaatgaaa tgttgat 277

<210> 6246
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 6246

caccgaatga cgccgattga acatttccta ttagatatcg tcttattatt attcagggat 60
 tgaaaagaaa atacaataac tcgacatcgg tcgttgtaaa gtcgcgactc agattttcct 120
 cccgacattg agcaattttt ttacaaaacg ctggccgata aaattttttt acggtagatg 180
 atgctttcta gttcgggtgtt gcccgaaaaa ttacaaatgt acgtcgacta ggttttttcg 240
 ttcgagctca accgaagttg tggttcgacc gacaccagca tgtattcatt ctctcggtcaa 300
 cgaatacatt agccctctc ggaagaaaac ttgattcacc aatactgata aaaaaaatgc 360
 ttgccgacgt ctacgaggga caatcaacga ccg 393

<210> 6247

<211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6247

gaggtaccaa tcgttgtctt tcgtcatgac cttgtaggat gtatcctatt gngtgagaac 60
 ttctaattctg cccctagggt cacttgaggc tcatgcacga tgccctcat tgccccagt 120
 taaggctttg aggtaccaat cgttgtcttg ttttcatagc ctcttagtga ggaagaatga 180
 aagaaggagt tgattcttgc aaaaagaatt ttttcaagga cgagaaatag ttgaaggatt 240
 tttcgaaggga ttaagtcaaa tgactcctat gtagaagcaa gatgttttga tgttntgatt 300
 atgccaaagg atcaagtgct tccaagtttt attcaagaca agaatccaag aatccaagaa 360
 aatcaagata tatgatcaag ttgatctcta gaatcttagg aagaagtttc caaattgaaa 420
 aagcaaaagg tttggccaaa gaattctatc taaatcat 458

<210> 6248
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 6248

agcgcgtgca tgggtctttta tattgtaagg ctgcttgctc aaggagcaag agaattgtagg 60
 ctactgaag atgggagaca aagaccaaca tgtaggcat catcagcaag taccatgacg 120
 aattgtgtct atctcctgac cgtgagcaca gagtggcaga cgattatgcc cgagtgtact 180
 cggatatga tgcttgagga aggggtgatcg actctgtaca tcaataggca ataattgtga 240
 tggacacgat tcaactttac ttagaatggg agataagagc ttactctagt gctagccaat 300
 gcctatgcaa tggcgggactc ctactcggac ggcgaggaga ttcacagact tcttatctgt 360
 tgtcagcata tgatagacgt tgtgacccat 390

<210> 6249
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 6249

ataataaccg gaagtgcac gatataagga cctagagcag attggactga ggaagacaga 60

agattactac aatataatTT aaaggccaaa aatattatta catctgcctt aggaatagat 120
gaatacttta gggtttcaaa ttgtaaaagt gctaaggata tgtgggatac aatacaagta 180
acacatgaag gcacaacaga tgttaaaaga tctacggata acactctaac ttcgtgatat 240
gaactttttac gatgaatgta ataaaagta 269

<210> 6250
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6250

agaggattga tggngacccg gtgttgagag aaacgatgag ttggtctacg tgggagtacg 60
tgagctcagt tggaggtggg caacagggga tgcgcggttt atgcgcgcat tgtggatgtg 120
gaaagcttgt tgtgcaccat cgcccgaccg ccacctagta ccacatgtga tgggtgcccc 180
ataattctac aagcttgaga tgaagaagtg ttgaagggtg aaacttctg ctcttattgt 240
tgaccacata gtgcgacctg gagatatgtc gcggtgggtca ggataccttg gggaccttac 300
gtggggagct attgcctcaa accaagcttg accaatcgag acccaaccg ggcatagttg 360
gtcactgaga acctgtgatg tacctataca tgcgagcttc 400

<210> 6251
<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6251

cattttacct tcaacttcaact ctctcacact ctatTTTTtn tcttNaatna tttntacnn 60
ntnnncccn nncnnacgca cccctctgc gagtgaacc tgtanacacn cacacttang 120
anactactca gcctgaggaa ctatggaccg ataagatacg tgagtgnctt gtttaattcc 180
tgaacagacc gaccatcatg aggggagtg attaccacta ctggaaaacc cctatgcaga 240
acattataga agcaatagat ctaagtcttt gggaagccgc aaaacaagga ccatatgtgc 300
cctctataat agccggaagc gcaacaatag aaaaacctat agcagattgg actgaggaag 360
acagaagacc aggacaatat aatttaaagg cccgaaaaat tattacacct gccttaggaa 420

tagatgaata ctttaaggat tcaaattagt caactgcata agatatgtgg gatacaatac 480
cagttacaca tgaacgcaca acagatgcta cagatctagg aataacactc cacctccgaa 540
tataaaacttt gtcgatgaat gtgaacaaac totcaagaca tccgagacgt tccacacatc 600
g 601

<210> 6252
<211> 314
<212> DNA
<213> Glycine max

<400> 6252

gctcgcgact ggtacctttc ttgcttgccg aacttgagtt cactattgct accccataga 60
gcttcgcgaa atttgatccg gtcatactct tccttgccgag ccctcttggt ctcttgttca 120
agggctcttg cggttaattgc attctcttcc cgtaaccggg cacactcctt accaacgtgt 180
gtagcggcca acttgaactt ctccctggaa gttgtgcctt ttctaactcg cttctgagag 240
cttggaactt ttcgaccaat tccggtgctt cacaactctc tatgctgacg acttttaact 300
tggcgagcca atct 314

<210> 6253
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6253

agctgattta gaggtttaag gggtaaaaat cgagctacan agtctctatc ctacactttg 60
aaaatttcaa ttgtggcatt tgagctctag ttntgtgttt agtggcccaa tggtagtttt 120
aattggtttt tagttaacta aagtctcggt cggngtggtt gtgagtttct ggttttcagt 180
taactaagtt ttaatcttta ccctaacatt tactttccct tcccctttga cgttgactat 240
ttctttcatg gtgctcacac ttgctgctat ttccctctct ttgttgatat actctggcca 300
tcacgttgt cgctagcaa tccgtgacgg tcacatggt tggtaggtgt tgggatcttg 360
tcttgctcct cacctcacta ttttccctca cgttcttact tttccttcat gtttcta 417

<210> 6254

<211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6254

tctctattat gctgtcaagg attctattat tacactgctc agaagttctt aaatggataa 60
 tataaaaatg caaaatattg tacaaggtag aacttcttat ttaacacata atgtaagaa 120
 ttaagctgga ttcttactgc agattatttc atcttccttt cctgggtattt ttataactag 180
 aactgattct tcttttttat aatattgcaa gctaggttgt tgaaaatgga acaggtttgc 240
 acactagaag tttggccaaa aagagagcca gtctttntt atctaccatg gtccatggca 300
 actttgttaa tgtttctaga atggacattc cgatcaaagc attggaccat acatngctag 360
 aattgttgaa tgacagataa tactagt 387

<210> 6255
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 6255

cttagaggtc caagaaagat gaatggaagt gtgagtgtga ctcataaaga cgag. ttggt 60
 atgatctgca tgacatggaa ggatgtgtgg gtgacagctt ccaatagaaa gaatggc. c 120
 aaatcaattc ttcaagggct aactggttat gctaagccag ggcaactctt ggcaataatg 180
 ggtgcctctg gctgtggcaa atcaactcta cttgatactt tagcaagtat atacatcatc 240
 acaagttctg aagcttctga ggtctgaata atctcctgca tgatagtgga tcccttataa 300
 gcttcaaaca actttgttat tcaactatat tattaaatgt tagctttttt t-+ a 360
 gagtagccta aatattttac tatttattaa catatgagat acgacctcac caatctaa a 420
 aagaagataa atttgaacta ac 442

<210> 6256
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 6256

aactacgctg aatcggccta gtggaaaagt gcgaccattg aatttctatg agcttccgcc 60

ttcaacttcg tgcggtttat atgtgagtcg cccgaaccgc acacccgaga taaaagcgaa 120
gtgcatttca gaaagactag agcat 145

<210> 6257
<211> 390
<212> DNA
<213> Glycine max
<400> 6257

cacaagcaga ggcagataga agttgattgg atcctttatt taattattct ctagatttga 60
atatcacctt ttcacatca gagttgacag tgtcattggt cgacgggttg caagtgcacc 120
ggatctcgca agtagtataa aacggtaaga actgagtatc gaactctcgg ggaacttggt 180
ttacttggtta aagatgtggt tcagtaagta agcgtcttgt tataaaagggt ttatgtgtag 240
tatggacaca tgtgtaaact aactaaacaa aggtaaataa aaggtagagca gtggtgggtg 300
cgaaggtaga tgggtcaacat gttggtcttc ctactaggcg actgatgcta ctaaagatgt 360
tctctaccta acagtgttct tgtgttctat 390

<210> 6258
<211> 378
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6258

aactaagctg aaccaaaccg atgagagtgt gaacttaaac tgcgagtgta tgattagctg 60
tgagtaataa tctttgcatg aatctctgaa ttttagaatg aactgtataa atgaggacat 120
gatgaaggcc atgattgcac atacacaagc cttntgacca aaaagcttac cttgaatgat 180
aattatatcc tttgcaccct ttttgagctg aatgatattg tcaaanaatt gaaccctgaa 240
cttaaataat tatctcaaga taccttggtt agattctagg agagcatatg gttcaaggaa 300
aatatacccc agatttgggg gagtggaact aattgggatg cacagaataa gattaagcat 360
cggcacacac aacacata 378

<210> 6259
<211> 228
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6259

aacttcctgc tnttaaatan tatcacagag aggnacctgc agataggacg cgttttatag 60
gagacctcgc ccacgccagg tggcgtgcta ttgcccaaaa ccaagcttga ccaatcccga 120
cccaacccgg gcatagtcgg tcagtgagaa cctgtgatgt acctaagcag gcgagctcct 180
gntagncaac atattaaagg aaatcacgac cacacagcac gtacgctt 228

<210> 6260

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6260

tggaaaatct gggacttagc catggtagaa ngtccttctt ttccattgcc tccctcgccc 60
agtaggatga tcatccgttg aggtgcttca ctctcgngga cttccagcta tcacccatgg 120
tggaagaatt cgaagaaatc ctaggatgtc ctctaggggg aaggaaacca tacctcttct 180
cagggttcta tccctcatta gctagaatth ctaaaatagt ncaaattctca acgcangaat 240
tagaccgcca aaagcaagtc gaaaatgggg tggtcgggat accgagaaaa tgtttggagg 300
caaaagcaag aatactggca ggtagaaacg aataggcccc gttcatagaa cgtctcgcac 360
tgttgatctt tggaggagtc ccttt 385

<210> 6261

<211> 230

<212> DNA

<213> Glycine max

<400> 6261

agctatttta tgatgtgtcc agcactagaa ctaggtccct aacataaagg gcatgtgtgt 60
gttgagttha tgaattcttc ctaaagaggc ttgcctggat tgaatctcct ttctatagga 120
agatagcttc attatgagtt ttggcccata atctgatagt tcccaataag agaaatttgg 180
actagcttca ggatcatcca acaaaatatc tttagtctga aaggtcacgt 230

<210> 6262

<211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6262

ggtctatatc gacgactgct atgagcagga gacttggcgc tatgactcag aggacctgaa 60
 gttggtgctg gatgtgttac cgttctatta ttactttaac gattcgggtgc acttttcgat 120
 aaagttcggg actaccctag atctcgaaca actcccaact atacaccacc catgattgta 180
 ccggtgcctg ccgagaacat tactaatcct atccctgttt gtactaagaa tcatccaact 240
 caaccaatc aaactcaaac ctataactcc aattctaggg aggaggcaca aaaaactccc 300
 gtagaccaca cgataattgg ttntgggccc catccaggat ataccttnga agggcatgca 360
 ttnttttagtg tncctatgtt gaacgctcct aaagcctctc aatagcacc gttatcac 418

<210> 6263
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6263

tctcgctgat acggcactat agaactcagc tgacaactat gctcaagtag attgccaagc 60
 taaactcaat gnngatanaa ccaactccaag tccagaaact tgtgtattct cacattctgc 120
 atagggcaca tcatcatgca ggggcagctg ggataccaag tttaaccaagg catctagtct 180
 accttcaagc ctctaagtt cagatgatgc tgatgatttt atggctactt catgccgtcc 240
 tctaatagacc acaggaacaa taactgccct gaaccgctct gccaaactcc ctctttctcc 300
 gcccacaacca tcgacctggc ccccggaact tcaagacccc cccctccgcc caccctaaac 360
 aaccccccttg ctacagcgc tcctctgcta cattgcgctt gccctctcgc accctccac 420
 tccgcgttgt ctctttttca cacatcctcc ctccccctct ctaccccttg gcggcagcg 479

<210> 6264
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6264

tacttctcac cagcatttct ttggttaaca ccaattatat tttcattcta gcattttaat 60
agatttgtat ttagaattgt gtatttatat tgattggaac agatatagtg ttccttttgt 120
ttttcttcgt tgagtttgtg ttaattaact ccacgttggtt attaatTTTT cttgattgta 180
ttctcaaaat ttcttagatt tggttctatc taattatcct ggacccattg attgtagaaa 240
gatattcata ggggggttag cgagagaaac gccgattgat gagtggtttc tatttgtatt 300
gcattngggtt ttctttccgg gtttaccaat gagatttcgt gaattaacta attttttaaa 360
ataattttgt ggagcgcaat tcat 384

<210> 6265
<211> 270
<212> DNA
<213> Glycine max

<400> 6265

gagagggcca ctaagcacta ggttgtcaaa gaaactatct cacacaagct tctcaacgaa 60
gacctctaata agagaatctg acagaagcta cctagtctat acatagaagc atgtgtaaca 120
cttgctggaa ctttgatgac atgagagtct tgagagacac aactcatagc tcaacttctc 180
tccctttttc ttccttcaat ttcgtgctcc cccctctctc tatctctccc tctttctttt 240
cctccattga aacatcctct ccaagcttct 270

<210> 6266
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6266

tcatgaattg agaggattag cattacgcct tgcanatcat ggagagttga ctcggtctaa 60
tgtaggcagc ctttacttaa tattgcatat gttaatTTtag ctattactcg ttattcctct 120
gctttttggc catgatcatc cagtactgtt ggtttaaagg tagcacatag atggaataaa 180
aaggactaat ttttgtttct ttgatatttt aaatttccaa ttctcttatt gaacttaaca 240
ccttcaattt atgttaaaat aataaaatga ctgtttgaga tggcatacat ctgtctttct 300
ttgggataac ttgtcttctt caactctttt attttaatat 340

<210> 6267
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6267

cttagctctg caattntnta gccatgacca cattgtcaac aaattatata aatgaataca 60
 tatgatctgt atgtctatca aattgatata atgtatcaaa tttttaaatt caaaattcaa 120
 attttaaattg agatagacta attttaaaca atagggggaa ataaaaaact taaaaataaa 180
 ttagtgtgac atacttgata cgggagaagt tatgtagctt atcatgaaag agagtgagta 240
 gttcctaata ttctcttggt caagagtga tacttttata aggggtgaatt tatgcatcca 300
 aatataacat gttgggtcccg agtaaaat taaagtgaag cttcatcatc tttgcattcc 360
 aacattgaaa cgggtgggct ggcccatgca ttccagcttt aatagaagta catatgtgat 420
 attataaagt tggaaagcct acact 445

<210> 6268
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 6268

catctaacgc gctttacccc ccagacccc ggtggacaca aatttgttta ccaaccacac 60
 tctcagagct ctcaacagct ccacgaact tctcaggaag cgccctatta atagaggaga 120
 gagggacctg agctctatct cgacaggaac acttctcagc gaaccttctg caagaagtct 180
 tctaataaga gatctcaacg acaccaccta tactataaat tcgcggcatg ggttacacta 240
 gcttgaacta tgatgaacga tagtcttggt agacaccact cagagtgcaa catcatctcc 300
 ttattgctcc taccaagacg agctcccccc tctctctgtc tctccctctg tacttgactg 360
 cattgaaaca ccgcctcaa gtttctaaat caggctcatc cggttgtaaa acaccatctt 420
 cctggctgat cccaaaagaa cgccctccat aacg 454

<210> 6269
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 6269

tgctataaga gtaatgtccc actggtaaaa ctaactttcc aaatgtttgc cttcgcaaga 60
atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcggc cgaaggaact 120
agttccgccc cggagtagca cagtcaccgc ttttaagagca ttgtgcacca gcagggcttc 180
gaagccatca agggatgggc agttctcctg gagcgacgcg tccagctcac ggacg 235

<210> 6270

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6270

cgtgccatca ccatttggcc tanaccatt ccgggctcat acctatccct caacataact 60
cgggccacca tcaaggaggc actagataaa cgtgggttgca ctggaggagc ttcaacataa 120
gcattgttca caatttctag cgcttgaaaa gatgtttcca acaactcttc tacagcttcc 180
acataggggtg tagaggatgg acaactcact agtatatctt cttccctga cactataacc 240
agttgtcctt ccaccacaaa cttcaatttc ttctgcaaca ttgacgggac caccacaaca 300
gaatggatcc aaggccgacc tagtaggaaa ctataggcga ggtttatgtc cattacttgg 360
aaggttattt ggcagcgtgt ggcccaattt gaatagggag atcgatctct cctctcatgt 420
cacaccggct accatcaaaa gcccttacca ccatggagct tggcctcatg tg 472

<210> 6271

<211> 288

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6271

actgagatgt ctgcttggag tactngcatt atatgacata agctgnaact taggggagag 60
atggttaggt atctcaatgt gtcactacac tgttctattt tataggactg acagggggtg 120
gatagttgct ctaccacgc ctacattgct accatgcagt tatgtggctg gtgtctttat 180
tgtcatgcta ttatgagaga cttgtgtgta aggcttataa cagccatttt cggatgattg 240
aatactatga gcaactctct cacaatttaa gcgagataca cgtgcata 288

<210> 6272
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6272

caacttattn ttaattcttt tanaagattt ttcaagttgg ggtagtttt agttttctcc 60
 aatttttaaat tntaatataa actcattttg aaagtttcat atcctatgaa attagtttaa 120
 gattgttttt gtgtgggtgg gacaccaatg ttgtagggtga ttacaacatg gtgatgggtg 180
 tgccgatgtc gactgtggca gtgggtgtgt caatattgat gacaattgtg gttttgggga 240
 ggatggtagt cctgcatac gtgggtgatt 269

<210> 6273
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 6273

ctaaagaaag catggatcca atagcatcag ggatttgact tagattgcag aaacttagat 60
 caaggtcatg caaacaagag aagctaggca aggaaggcaa caaacaacca cctgaatttt 120
 tagaccctct agagtaggag aaatggaaag gtatgaatct cttgatgatg gaggaggatg 180
 ttgactggga ttgcatggca gtttcctga tattaggaat catggaatac tccttcatta 240
 ttgggttctc taacagttga ttactaaata tttttggaca accagagata tttagatatt 300
 ccagagaact tagacccaaa atatt 325

<210> 6274
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6274

tgtganaacg tacactccat attctaataa aaatgtctaa ttttattggt tgaaaatgta 60
 ttgatagcac ttttcaaatt caatactaaa accagaacat acttggtctt aaatgcatat 120
 tgtattgttt ggtaagacgt tagctaagag tgaagagttg aaagaatgga gaaagtgacg 180

gaaggaggaa cgcgnggttg accccaaata ttggttcaag tacaatttct ctaacgcaaa 240
aatcaacatt ctttgtttca aaaaataaat aaaaaaatca acagtcttta acacactaca 300
atttgctttg ttaaaggctt atttatttat aaatatTTTT aagattctca ttntatgtca 360
tagacaatcc acataaccaa attaactact attgtttctt cgggttgggg agagctggaa 420

<210> 6275
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6275

ataagataag attggatgan ataaaatcta gatgaaataa aatctggata agataatata 60
agataacatt ggatgaaata aaatctagat gaaataatat ctagatgaaa taaaatctgg 120
ataagataag atttgataaa ataaaattgt ttgttctctt caagtccaag cccaattccg 180
gattcaagcc caattgctta taattctcct gaaattaaat taaaaacaca aaattagtcc 240
agtaggcccc aatgataaaa ttgcataatt aatttgacaa ttaaggctaa taagtaatta 300
aaatggtgac aaaaaggggt aagaaatagg agaaaatatt gacacatcac cgtcgctctg 360
gccaaactat cttgaaagaa gtgcatcaaa gattctcgtc tctggaatat g 411

<210> 6276
<211> 471
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6276

cgcgctntca tatctaatat tacaacttgg tetaagaact ctattaccta tcttgtcctg 60
acaacagggtt gggatttttg agatagcccc atccaagcag tcattgcagt ctttctcaga 120
caagtcaggg gtgcactctg ccataccata tatggtctga aaacttgaag cagttacatt 180
atccgtggca tacttacgac gagagtcacc cgatgcgggt acaccttga ggtttctcat 240
taagttcgcc agagcttgac tgaacttatc cggttccggt acattgttta tgttcatcaa 300
ggattggcta ggttcaattt ccatgatgcc aaatatcgag cggggtgagt agcgcaacat 360
gcatttgcta gtgttcaacc acagaagtgc ctctttctgg tttggacaaa actgtttaat 420

tgtgactctg gaatcattga ggcaactgcg gcactcatgt ggctcaacat c 471

<210> 6277

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6277

ctatgacgct cacgtctagc atanagacac acngtaccgc aaccgattnt actcaaagac 60

ancacacaan agccgacact aacatgaaac gcgccacana tactacagct ncccggccag 120

gggagagcct cttcaaccac aaagacatac atattttatat tcatgatgat acccgagca 180

cagagggcgg acgttgggaag ccgacacaag ccaagaatgc gacgactagt ggaacatgca 240

aagctgagcc aacaaaaggc tccagcgatt atccccacca aagatagact aagagaagtg 300

gcgacaacaa gaacgcggcc caacataaca acaacgagcg accgtaacca aaaagaccca 360

cctaaccacc aagggtgcgg ggaagaaaac atcggcaaac acgatccaca gtacaacaac 420

ccaaaccgaa cagggggaag agcgggaacag aaaatcgtaa accgatcaca gtgcggaaca 480

aatacccaga cccaaacaac tcacatcgcg agcggaccat aggatagagc cgcaaaatta 540

aataaaccta cactaccatt ggaactgaga cacgggcccc cc 582

<210> 6278

<211> 450

<212> DNA

<213> Glycine max

<400> 6278

ctcagctcgg gatgtatact gatgccaatg tttaacaacca ttataccat attcttggtg 60

caatatgaca caggaagagt aagtggctgt tagattcctc aactgtatta cataaaggac 120

actaattatc ctttggagat aacatgattc ctctgacttg aaggttatct ctagtagttg 180

ctctattaat agacgcactc catacgaaga atttcacttg aggaagaacc ttaagtgctt 240

aaacagattt gaagaacgat gactcttgag atgcctcatc tgtcatgata gtgagcttgt 300

gataggccga attcgcagaa taattcccta agggctctagc caaccaaata cacctgtaca 360

tgctagaggg ttagctgtat aaccaagttt agaagaagga ccatcgattc atccactagc 420

ttctattccc aaactaacca gtcctttctc 450

<210> 6279
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6279

accaggcac tactactata tcgcatctct ctataactnt taaattaaan acctacgann 60
aacnnccnn nccccgtgt catgatacgc gccacttata cacagcccc ggctacgcaa 120
gaccagccat agcggccaag aagcttttct cgaacgagaa gagtgcacca gatgagggct 180
agatgaaata gacactggac cacacaatgt acgatgacag aggatgagac aaagcccaca 240
tgacacaatc tctagatgaa atacaacctg gatcggagaa cgattgagca gcaaacaaag 300
gatgacctct acaagaccaa gcccaactcc ggatgcaagc ccgagagctc agcagacgct 360
cagcacatcg gagacaaaca caccagcatc gtcagggagc ccgaaggaga aactgcgctc 420
attaatccga caactcaggc taaacacgga gtgaaaagcg gacatagcag ggtcagaagt 480
cagaccaaca tatgacacat caccgtcgct gcgcccacct atcgatggcg acgtgcgaag 540
aagatacgcg cctctggact atgcgcccaa cttgccacct cccg 584

<210> 6280
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6280

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gcgtgcgaac agttataatc tatctagcac tgacgacagc gttgggtggt tgatatagac 120
ccattcaagc agttattcgc gcttatctca caccgtcaa ggggtgcgctc tgccatacca 180
tatgtgggtc gaacactccg tgcacactca ttatcctggg catactcact gccatagata 240
cgcatatcgg cgacaccatt gatgctgac attgagacct gcaaagcttc gcagaactta 300
gacagnctcg taacatatgt catgtccgctc aatgatcggc tatgtgtaaa ttccctgac 360
ctcgattcct acggagtgcac gaggtcctt gattatctct ccttagccat gaagtgcgctc 420

tttcttgctg gacagagtgt gaactttgac gatgaatcat tgtggatccg agactcatag 480
ggttgacagac actctcg 497

<210> 6281
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6281

acctgtctga gcaatcttat gttctggttc tcaccttcat atcctctnga ctttctccca 60
ttacctgcaa gcaaacattg tgttctggag taggcttgct ttccacagac aagtcgaaat 120
caatttttgg gtcttcaaaa cctaactcca gctttctctt ccccatgtca actatgcagc 180
ttgcggtcaa catgaacggc cttcccaaga ttacaaggat gtcagtatct tcagagatat 240
ccataaccac aaagtctgct gggaagataa aatgttttac cctgaccaac acttcaatca 300
ctccacatga cctggtgatg gagcggtcag ctaattgcaa agtcattcga gtgggcataa 360
tctncaacta ctccagcctt ctgcacatgg agagtggcat caaattaatg ttggctccca 420
gatcaatcat agcctcttcc acatttac 448

<210> 6282
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6282

tcaccattag tgacgggaac cttactcttt cttatggagg ccactataac ctgacacatg 60
cgagtgaggg ggctaccacc gggcttctga atccgataca gactcgtacc ggataagaag 120
ctcaccacag caattgccat ggccactgct ggaaagacaa atccccaccc ccaacttaca 180
gtagtaagga cccacaccac caaagaagca gcaacgcgac caccactatt tattgacaag 240
cagaaccact ngaagaaaga gctcttgctg tcnctctcag cttcatcagc atcacaaatt 300
gagtgcacca aagaagagac acaagc 326

<210> 6283
<211> 342
<212> DNA

<213> Glycine max

<400> 6283

tttccattgc actcaatgat gagatgtgtg cattatcacg tgaaaaagag gctaagcttt 60
gaattgcaga aagtagccgt tgggctaagc tcatcagttg ggctaagcgc ataaccacca 120
ctaagtgtag cattagcacg cttagcacac aggagaatct agcagagcat cagcatcaga 180
ggcgtgcgct aagcgtgaga tcagtgcgct aatcacagaa ggtgccttca gtctagctaa 240
gctagagact ggcgctaaac ccaatttcac ttactcgac taaacgcaag ggtggcgcta 300
agtgcacgg cgcgatatca aagcctatct aagcctatct tg 342

<210> 6284

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6284

actaagcttt acctttagtt taacccttag aacttcccg ccaaattggt atatataaag 60
caatgttgat gttcaaagga cactttacat gcctttntaa tcaactgacc tacgcttacc 120
aagttctggt caatgttagg tacataaaga acatctgata ttaatttgat acctgctaac 180
gttgaaattg caacagttcc ttttcctttt ataggaatat agccaccatt cccaattctg 240
acctttgaga cattagttgg cttcaaattc ttgaataaag tcttatcata tgtcatgtgg 300
ttcgtacaac cactatcaat caaccaactt tcacttgatt cactactcaa ggttgataat 360
ttttcttttt atccttacct ttgatatgga tgattgcact attttcgctg cttgctggct 420
ggatcttcta gaanaaatgc tttntgcttt catcaacttc atgat 465

<210> 6285

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6285

cttgggggttg ttagttcatg acatgggttt ggagcctatt tgatcagtg gtcgacagtt 60
tgatccacat caccaccccc ttatttttct aaggcttaaa tatatttttt tatccctgca 120

agataacact tttttcattt tcgtccttgc aaatatattt tttttcgtct tagtctttgc 180
 aaaatgtgtt tgtttgtttt tcatccctaa agtacttttag ataccgcttt gaacagtaaa 240
 aaagtgcctt gaacacacac aaaaaatgct atctaaagca ctttaaggac ggaaaacaaa 300
 acaatcatat tttgtaagga ctaaaacgat ttttttttta tgtgaacgan aatgaaaaaa 360
 gcgctaaact gcaaggacca aaaatgtagt taagccttct tctaatacaa aagttggatt 420
 tgag 424

<210> 6286
 <211> 101
 <212> DNA
 <213> Glycine max

<400> 6286

cagcttgctt tctccgaacc ggactatat gtttcgccct ccatcaattc aactcgacat 60
 gacaggaacc ttcccgtagg cgcattgagt gcaacattga t 101

<210> 6287
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 6287

tgtctgaacg tttatgccag acaaagacca acatgttatt cattattggc tagtaccaag 60
 aagaatttaa tctatccatg gcccatgagc acaaagaggc ggatgagtat gccctagtgt 120
 ctgcggaaaa tgaggctata agaagggtga tcgactcggt acatcaagag gctacaatgt 180
 ggatggaccg agaagctctt actttgaacg ggagtcaaga actatcccga ttgctggcca 240
 gggccaaagc aatggtgaac acctacttcg ccctttagga gatgcactga cttctcatgt 300
 atagtcagca tatgatagac ttaatggccc atataattat gaaccggtag gaagtgtgta 360
 ttgtcac 367

<210> 6288
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 6288

agcttagaac atgcaatgtg agcagagact aattcgagct taagctgggt ccttttcttt 60
ctaggttgca tcttttctct cttccctgct tgactcttta cagtgcctgt gtgtgggtga 120
atcactctgt atagctccta tggatatgt atatgtattg tttctgtagt tggaaatcat 180
aacttacaga aagaaaagaa gaatactagt agatcaacag tgtcatatac tcatattcac 240
tggctaggag aaaaactgaa aaagctttct ccatatgttg cttttggcag acaatccgat 300
ccttgcccag aaccgctgca gtgttataac caattttttt taccttagaa taatacaata 360
aatacaatat gaacattaca gtcagtgcct ctgtgagtggt ttttaccgt tttactgatc 420
tcc 423

<210> 6289
<211> 613
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6289

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attccgctag ttatcaaact cattaaataa tatagcaata taatattgaa ctaactaggg 120
tggaaaattt tcttactata aaattgcgtt aaactttaac tctaaactaa caagtatata 180
aataaactaa cgagtatatata tattatgggtg tcaatatatt taattttaag taaaatttaa 240
aaggtataaa taaaaataaa aatgttttaa tttataaata gaacatgttt cacactatat 300
aaaaaataaa acaattaatt tgagcatttt aaaaaaatta cttttcaaca gtaaagccac 360
atgttgaaga aagagatcat cacttttaat accatacatt tattttatta taaaaggac 420
aatagaaata caacacgaag aaaaatcatt aaagcaaaca attgctatat attgtatgg 480
tatgccttgt ggggtgtggt tgcgtcaagt atttaagagt gattgattat atgatagata 540
acatcattta gaaaaaatac tttttntttt ctaagccaat tagaaaaata cttgacaacc 600
tacaactaag tgg 613

<210> 6290
<211> 423
<212> DNA
<213> Glycine max

<400> 6290

agcttctcaa ggaagccacc tagtctataa atagaagcat gcgtaacact tgttgtaact 60
 ttgatgaatg ggagtcttgt gagacaaaac tcaaagttca acttttctcc ctttttcttc 120
 cttcagtttc gtgcttgccc ctctctcttt ctctccctct ttcttttcct ccattgaagc 180
 atcctctcca agcttcttat ccaaggttca tcttggtggt gaagctcctt cttccatggc 240
 ttattcccta gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc 300
 catggtggaa aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataaa 360
 agccccacaa gcaaactttc atcaactacg tccactaaag aagggtttgt gaggaatggc 420
 tta 423

<210> 6291
 <211> 624
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6291

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 agggaagaat ttctccatga acacctctt aaggteatc cagctgaaaa gacctagg 120
 agcaaggtag tatagccaat cttttgtcac tccctctaga gaatgaggaa aatccttttag 180
 aaagatatga tcttctctgga cattaggggg cttcatggtg gaacaaaaaa tatgga c 240
 cttaagatgc ttataaggat cttcacctgc aagaccacga aacttgggca gcaaattgat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcagga tattgaatgc acaagctttc 360
 ataagtgaat tcaagtgcac ccctctctct aagagtcctt tcacgaggtg gaatttcttc 420
 catgtttctc gtatgaaaat tagcagcgga atgttcaaaa c 480
 ctcaacagaa tgctcaaaat gcacataatc tcaagaa .cactatgcc taactaatct 540
 atgaaagggc ctatctattt tatgatcaaa g gtaaa tcacctagat tgcccctagt 600
 catgcactat atgcagcaaa tagt 624

<210> 6292
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 6292

agcttgaatc ggacctgagt gtgaaaagtt atgaccattt gaatttctcg aaagctttcg 60
ttgttcaatg tcgagcatct cgacatatta tgcgctcgaa tcgaacatcc gagtgaaaag 120
atatgaccat ttgagtttct cgagagcttc cgtgggttcaa ttccgagcat ctcgacatat 180
tatgtgcccg aatctgacct tcgtgtgaaa agttatgacc atttgaattt ctcgagagct 240
tccgatgttt aatttcgagc gtctcaatat attgaaagcc tgaatcggac ctgagtgtga 300
aaagttatga ccatttgtat ttctcgaaaag ctttccttgg ttaaattccg agcatctcga 360
caatatatgt gcccgaaatct gcctttgggt gaaaagtatg ac 402

<210> 6293

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6293

tcttatccaa ggcaattctt ggtgggtgaag ctcttcttct cttggcttat tccctagtgg 60
atggtgcctc cccatctctc ttctcctttg ctttcgctg catctccatg gtgaaaaatc 120
accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcaa 180
gcttccatca cttttcacac agaggtcaga ttcgggcaca taatatgtcg agatgctcgg 240
aattgaacca cggaagctct cgagtaattc aaatgggtcat aacttttcac acagatgtcc 300
gattcggggc cataatatgt cgagtagctc gaaattgaac aacggaagct gtcgagaaat 360
tcaaattggc ataacttttc acacctgcct cacattcngg cacataatat gttgagatgc 420
tcggaagtga accacgaaag ctctcgagaa actcaaattg tcataacttt tcacacggat 480
gtccgattca ggcgtatcac atatacagac gctcgaaatt gaacaacgaa agctctcgag 540
aaatacaaat ggtcataact ttt 563

<210> 6294

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6294

agcttttctc ttctacttct catataacct gtttgctccg aaagtaagag taggtcacca 60
 ttcccacttt tatgaacctc tagactttctg tcaatctctc ctattttatc tatattgtct 120
 tcattgctta gtatctcgac accttttctt ttcttcccag aagaaatatt aatacctgat 180
 ttggttaagag ggctctgagc tacttgagggt gctgaatggg agctattatc aagaccatga 240
 ccactaagt tacctttggg agacaagtct tgcattatgn gtgggtcttg cagtttcttc 300
 ccagaagaaa tattaatacc tgatttggtg agagggctct gagctacttg gcttgctgaa 360

<210> 6295
 <211> 678
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6295

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 aggctctttt tcgtttttagt tacttttttg ttttgagag aaagaataaa ttttaagtttt 120
 gcgattctag tttttacaat tcatatagca ataaagtttc gttttctgct tcaatctgca 180
 atctcgtttt ttgttgatta atggaaggct aagtctccaa cggttgttttc tcttgaggag 240
 gatcaagcac aactctcttt gaggttttat tattactatt aaattctgat caatttttcc 300
 tcttcaccaa ttactctgta ttgttgcta ttaatccatg catgcttagt gcttgattaa 360
 ttatctttgc gcttaattta gttcatgctt aattattagt ttcgttcatg attaattggg 420
 gtatgtgttg cttaatcaca taataacaac ctcatgttaa atttcgctta gtaatttaat 480
 ttaagggttg agtaagtggg tgaactgatt aatgataaat tctcgtaacc taggataaga 540
 gacttacttg tgaatcaagg ggaaacaacg taatttaatt ctgatatttt ctaattaa 600
 attactcgct gtntaattta caaaaacaaa caaccccccc aattcgntat tggtttatta 660
 ctatctggta tgaacgtt 678

<210> 6296
 <211> 482
 <212> DNA
 <213> Glycine max
 <400> 6296

cttcaagcca aggccagatt ctctgcatg cagaggcttc tgaagaagaa aaatgccaaa 60

ctcccccttaa aaaatttgat ttcaagctta aatacgtggg ttggtccgtg ctcacgtgct 120
tagcgcaaat ataaatcgct tagcgcgcat aagtggattt cggcttaacg tgctttctctc 180
gcttagcgga tgagctgaag tgggtgcgctt gatgacctgg agcgggtgcac tcagcgaacc 240
tgacagctca tcttcttctg gatgattcct cgcgcttagc cactgagtgt cgcacatagc 300
gaatgatcgc taagctagaa gattggctta tcgagaaagt aaaaaatagc atttttgccc 360
aatttgctta attaaccccc aaattgaaaa gaaattgatt atttaacccc accaaaaacca 420
aaagttttta attatctatt acctatattt aatagaaaag tcttataata ttacaaaaca 480
ac 482

<210> 6297
<211> 596
<212> DNA
<213> Glycine max

<400> 6297

tattattatt tatacatact aacaataagg tacattaact tggtaaatta aattatcggc 60
gtaaatgtac atcaatataa atataatata ataaaaatatt aacaatgttg ttaatggcgg 120
aaagccaaaa attcactata aaaatatggc ggatgacgta acagaaaatg acggatgtca 180
tggcgaacaa aaaaaaaata catatttata aagtactga aattgaaaaa aacaatggat 240
tgcattcaaa taaactaaaa atgtttcatg agttcataca ataatcaatt atcaatacca 300
aataaactca ttaaagagtt caaaataaga aatgataaa aaataaaaagg ggtgtcaaat 360
atcaaaagga aaaaaaagct gcatacaaag aaaggggtgt caaacagcaa aaacaaaatt 420
gaaaaaaaaa aataaaagct aaagggcacc acttcacccg cgatgctggt tgccttcatg 480
aaggtagtgg tcaccattcc aggcctcgtgc tcgcgccgcc gttccaagct tgtgctcgcg 540
tcgtcgttcc tgtcggtggt tgcacgcgcg ttcgtgccga cattggctgc ggtcta 596

<210> 6298
<211> 641
<212> DNA
<213> Glycine max

<400> 6298

agctttgttt ttattttata tattatattt atataatctt atgtgttttt atcatattat 60

tcaaaactta ttttatactt taaatatata atatgaattt ttatctttaa tttatatattt 120
 ttatataaat tataatttca taaaatgaca atattgtatt atctttttaa atatttagat 180
 atgtgattta atggcggtat tgtttttacc tatattaaga tattatcatt atttattata 240
 ataatatattt tatttatatt taaatttatt taatcaagta cataatttta aaaaaaaat 300
 aaattatata ctaaagataa gtaattaaat aaaataataa tattttctat ttttaaaaac 360
 atttatatat gtgatttatt gacattattt ttttatctat attacaataa ataacaccaa 420
 tatcttaata tagacaaaaa aatgttgtca ctaaatacaca agtattattt taaaagataa 480
 atattatata ttaaataaaa aaacttatat aaatatacct attctaattt atatgaaaat 540
 aagaatttaa tatttatata tttatatattt taaacatatt atataagatt tttaaaattt 600
 tattaattta aaaaagaaaa aatttggatt ttaaaactatt t 641

<210> 6299
 <211> 544
 <212> DNA
 <213> Glycine max

<400> 6299

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 cctgatatca atacatttcc aagtacaaaa ttgattgatg tataaagaaa gaactaacac 120
 atatactata atttccatac attcatgcta cctcgagcca tgtttttttt tctataacca 180
 cttgaaataa attgtcactt ttctttttca atatcaaagt cttcaattag gaagttttcc 240
 aaataaatca taagttatgt aaaagtgtca tattaatgtc ctgcattgac ccaaacttat 300
 tacaaagtta ttttcacatt aattttttac aactcaaat aatgcgcaat caacacaaaa 360
 tcgctatcga cccatacgaa ttgcatatta taatgacttt acggattcgt aatatgtatt 420
 agattcagca aaggacaatt atgtaattgt ccaaaatggc ttgggtgtcc aagtatattg 480
 gtgggtgcag taagcaaaat tggttttgtg atgaatgctt cattttaaaa ctgcaaactc 540
 tgta 544

<210> 6300
 <211> 521
 <212> DNA
 <213> Glycine max

<400> 6300

agcttttcaa cacaaaagtt agtcgtaa at gacgactaac aggatcccaa ccattttctta 60
cacactcaga acgacatata gaggggtggt tagccaacgt aactccgagt atgatgcaac 120
ctccttaacg tcaaacgtgt atatatagac ccagaggaaa tacctccagg taagtttttac 180
tcttccagat atagacacat aattgggaaa tattttattac ttattagtgt actttaattt 240
tctttttgca tcagtaaact aatgaaatga ttgggggaatg ggagataata tcaaagtgtct 300
aatgtctact agccacacat ggagtataag aataataaaa agtaggttca tgttgtaaaa 360
taaaaaaaaa aagtatcatt tctttttttac aagtgtgggt tgtagtcact aatcagtcca 420
cgttcataca aaactaccac agctctatca ttgaccaatt caaatctaca cttgctttct 480
attcttcttt ttctaggttg gactgggtac aacatgtcaa t 521

<210> 6301

<211> 599

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6301

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ttaggataca gtagaacatg aaagtttgta ttagagtcaa gttgcgaact caactcat 120
ctagactttt ttttttctga attctcattt agtgtcaact atccctactc taattttatt 180
tattatgttt taatatttaa tgttctatac tttttagat ttaatttatt gttttaaata 240
tactatagca atgtgtgtgc gcacacgaat ttatgcattt ttaggtttgg tg cttttt 300
ttatcaacaa ttattaatat acctcctcta attgtttact ttttttttaa tccca 360
aaaagctagc ctccataatt ctatattggg ttatccgatt ttaacctttt tatt 420
ttattgtatt ctcaatgtcc cttgggtccat atgtctctca attgaacacg gagtaagaa 480
tgtgttattc tcgtaaagtt atgatcattg attcttttat acttgagtga aagagtaaac 540
acaaatatgt canatatcac atattggtat gcatgggtcac acatatttca tgttctact 599

<210> 6302

<211> 344

<212> DNA

<213> Glycine max

<400> 6302

agcttataag aaattcaaact ggtcataact tttaactcgg atgtccgact ctggcgcata 60
atatatcgag acgctcgaaa ttgagcaacg gaagcagttg agaaattcag atggtcataa 120
cttttcacac ggacgtcaaa ttcaggcgca taatatctag agacgctaaa aattgaacaa 180
cggatgcctt cgaggaatac aaatggtgat agcttttaac tccgatgtta aagtcatgcg 240
cataatatat tgagacgctc gaaattgaac aacggaggct ctccataaat tcaaattggtc 300
atgacttttcc actcggagggt cagaatcgag gacataattt atgg 344

<210> 6303

<211> 359

<212> DNA

<213> Glycine max

<400> 6303

tccattgttc aatttcgagc gtctcgatat attatgcgcc tgaatctgac tttggagttg 60
aaagttatga ccatttgaat ttctcgagag cttccgttgt tgaattagga gcgatcgat 120
atattatgtg ccggaatcgg acatccgagt taaaagttat gaccgtttga atttcttatt 180
agcttccggtt gttcaatgtc gaccatctcg atgtattatg cgctgaatc tgacatccga 240
gttaaaaggg atgaccattt gaatttcacg agcgcttcca ttgtgcaatt tatagcgtct 300
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<210> 6304

<211> 567

<212> DNA

<213> Glycine max

<400> 6304

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taagcctagt ccaacaagag ggatatgagg atgaagcttg gattgattca ttctaactag 180
ggatcgaggt ttagtaattt aggctagaac ctagaaaaca aaagcatgat tgattagaga 240
aacatcttta tatacatcag ctggtttggt agaaagaccc aacatcttta cgtactgttg 300

tcaatcttac ttacttgcac ttttactggt tttagcgtag acttagttta attctattct 360
aatcatcaa ttatcaatgt ttctttcaac aatgccttat ttatgaattt aacctgtct 420
aagactagtt ccctgagttc catactcaga ttcattccatt ttaattttta atacttgacg 480
atccggtgcg ctttctcgca aaccgaattt cccttgaaca tatttgtata aagaaaaagt 540
ggaccaaaaa gtaactgcag gggaaag 567

<210> 6305
<211> 616
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6305

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accattaaag gacctcattg aagctcaaag atccagcctc catagaagct tcacaagcaa 180
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atgaattgtg ttaagtttag gttcctttga gttttgtctt gttatttttt gtggctgaaa 480
cctaaacat anaattctta caaatatatt aaagtagaag aaaacctcaa aaatctagag 540
tgacttggtc acctattgta gttctttcat agaagtcatt tctagtcatt aaacttgatc 600
cataagaatt cttatg 616

<210> 6306
<211> 504
<212> DNA
<213> Glycine max
<400> 6306

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tacagatgta ttacatccat atgcattggt ttttttccag aatatttatt aaattttgaa 120
aaatttagat ttaataacat tattaatatg ttttaattttt attacatatt tttgaaattg 180

tggataatTTt atttattaca aattatTTtat agtGtaagta aaagattaaa ttattttaggt 240
acaataattg aatttatttt aactagtaaa atgttaaatt agttgttagt tatagttttc 300
tatattttttt tttgataatt agggtgcaaa atttttattt atttgaagta ttttttatgt 360
taaatgagat gttttctaaa aaactttatt attggggttt tggaggccct ggcgggaaat 420
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atttttaagg gcaaatttgt atta 504

<210> 6307
<211> 523
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6307

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tgggagataa tgaaagtTTt acagcccagt cacctcaaca acatgagcca taaccagaaa 180
cgatcactca tttgaagcca ccatccctcg agctgttgat ttcgcaaaaa gaagattaga 240
gacgagatct aatgaggctg ctcatcctat accagtgccca ccatcagctg acgcaccatt 300
tccaggagtg gatccatctt caccttagca tgcattagac tcttccactc ctatcttaga 360
gatacatgag ggccattggtt tattatcatg cngccttttc ttgaccactt cgaggaactt 420
gacacccatc gttaagcaat ccgtgaagtt ctgcgacatg tcgggagtcg aaatgaaaca 480
tttattgcgc aatccataaa gtttcgtaac attccagatg ccg 523

<210> 6308
<211> 345
<212> DNA
<213> Glycine max
<400> 6308

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acacaagaca taatacactg attacaagtt attaggttat ctggtcattt gggTcaaggg 180

ttgtttgttt taaattaa atagaggtgt gcgcaaggtt tgaagcaaat gcagaagtaa 240
ccattgtagc tagttgctag tgtcatgtta gttatgcatt acgtatgcat gcttgatcat 300
tatgtcttaa attcacatga agccaatttc ctttttgat atgta 345

<210> 6309
<211> 749
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6309

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gttcataaat aaagaatata tcataccgag accgacataa atgaactcac gtaatcattg 180
cataattggt atactatata cattgaatgt acctgttcaa aatgattaac accattttac 240
cgacatatat ttgcggtgcc tataaaatta agaggtgggt aacttctacg agaaataaaa 300
cacagcattg ttcttggtaa accgaacaaa gtttaacttt tacagagact ccataagagt 360
tcatgattat ataaatatac agccnangg acctatttgc ctgttatgat ctagcataaa 420
gatctagtat atttaaacc ctagaattatc aaaaacatct gtacaatact atgtattaaa 480
cttactataa gtcaggtcac actttaattt atcaaaatct ttgtgcaacc attagaggat 540
gtacttctta gccaccagct tgaccattac aagtttttca ccagtacggc cacaaatctt 600
cccacttta tataaacgca gatgaccacc tactatatatt tcgacccttg tcaatgcacc 660
gcccactgc gctcttcata aggtcacagc aaatcacctt ctaacttctt acacgtctag 720
cacgtcaac ttataacta ttctgcccg 749

<210> 6310
<211> 506
<212> DNA
<213> Glycine max

<400> 6310

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aagttcaact tctctccatt tttcttcctt caatttcgtg ctccccctc tctctttttc 180

tccctctttc ttttctcca ttgaagcatc ctctccaagc ttcttataca aggetcatct 240
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 cttctccttt gtcttctctt gcctctccat ggtggaaaat caccattaga ggacctcatt 360
 taagctcttc atccagctc catagaagcc ccacacgcaa gcttccatca agtggtatag 420
 agcacaagag cttcaagtaa gggctcctta aacctctggt aattttttgt ttacctctc 480
 ttctattggt ggttcttcat ttttct 506

<210> 6311
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6311

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 tcctttcttc acgctgcac ccatgccttg cgaactcctt gaagtacctt cgtgttctgg 180
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 gggtagccaa gctgtcttat ggcgaggacg ggattataat taatacaaca ccttggtccc 300
 atcaagagaa catttggaac tccttcgcat gaagatagaa tcttgattct tccttccttc 360
 tagcgaggga accaattaac agacgcctct ccatgctgcc aaaagttggt cccaattcgc 420
 ctttcctttt tcgatgcacg agcggtgacc ttgtagcgga tagacggggc taccttcttg 480
 gagaaaaaag gtgtgaaacc agccacacat agagagccag tgcacaacaa acaattcttg 540
 cgctgctctt ttcacatnct ccgtcgaacg tgcatacat ggccaaaatg gcga 594

<210> 6312
 <211> 498
 <212> DNA
 <213> Glycine max
 <400> 6312

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taaggtcagt cattaaaaga aatgcctaaa ctagtggagg agactgcagt gactaaagag 180
 agcacacggc tctacggact tgcaattgca atatatcagc ctacttataa ttatatTTTT 240
 ctaatatgat tccaagttgc aagaattctt cattgagtaa cctcattgag tagctatata 300
 tgcatatagc tacattgttg acatttttgg caagaatata tcttgggaacc tctaagctaa 360
 tcaacatata aacaagagct agaagagaaa aaaccatttt tcacataacc tagaatgata 420
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<210> 6313
 <211> 602
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6313

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 ctaggcatcg ttgtcctaata aagcaacatt ttgtttctaca gtgggaagaa gaggatgac 180
 ctgcatttca accagatcca ccagacgagg ttgagacagc tggtgacccc agtttgcaag 240
 atcatcattt gtcttataat gctttaaaag gctcatcagg tcttgggaata atgaagtttc 300
 aaggatcaat aaatggattg ggagtgaga ttctactaga tagtgggagt tcagataact 360
 tgctccagcc tagactatct caatgccctg gagttcctgt agaaccaatt cctaatttgc 420
 aggttttggg tggaagagg aatgccttga ttgctgatag attaattcaa gacttggagg 480
 tgaagattca aggtcatata ctgaagctac cagtttacct acttccaatt tctgggtgctg 540
 atctantgct tgaggctgca tggttggcaa caattggggc tgatcttttt gattatagta 600
 ct 602

<210> 6314
 <211> 582
 <212> DNA
 <213> Glycine max
 <400> 6314

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aggccttttct tgcttttttg tccttgatac ataattaggt tggcaagaat cttcatgttc 120
 tcagtcagat agaggggtgtt gacctagata tgtacaaaga tgttgtgtt cccagagtac 180
 tggagcaggt ctaattgtct tattgtttct atttctaata atcaaagaca tggttaactt 240
 tctaaccata aaaaaaacg attccttttc ctcaattatc atgggcaggt tgtgaattgc 300
 aaagatgagt tagctcagtt ctacttgatg gattgtataa ttcaagtctt ccctgatgag 360
 tatcacttgc aaactcttga tgttttggtt ggtgcttacc cccaacttca agtcagtga 420
 cttgcacatt tttttgtatt acttctggag gatgccttaa tgtatatatg ttttttctca 480
 ctccgaaaca tgaaaattca ggtagtgaa cttgcacagt tttgttttac taatataata 540
 atattatatt ttattgggaa aaagcccaaa ttaaattattg aa 582

<210> 6315
 <211> 845
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6315

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 ggaatcactg tttattaaag tttataatgc atgcactcga tcggtatgta ttatatcagc 180
 aaagcgtaca tttaggtttg attattatgg gagccttgac taatttgact ttttcggcat 240
 atatccttgt gtttggcata tttaaaatga aaaaaagtat tttatatgta aataattggt 300
 gtatgaaaat gtggtattag ttgaattaaa attagacatg ataaataaat tcatatttat 360
 gggattatc ttgaattgac tccgactttg acagagatac cgctttgata ggatataaat 420
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 ctgtacccat atcatattat attttttttc acaatatata tatatatata tatatatata 540
 tatatatata tatatatata tatatatata tataaacgt gttatggcta taattttnta 600
 aatataaatc acttaactta atatcttaat aattaaata caaacttaaa aatatacatg 660
 taactaaaaa tatagatgaa ttcttaattt tttaactctc cttttatttg tgatctggga 720
 atatttaata tatcgggggtg gagctacaaa tatgattata ttacgaaact tcattatatt 780

aattttattg ttaaacaata ttttacta actttaagat ttttataaaa acgaagtgg 840
 ggtcg 845

<210> 6316
 <211> 747
 <212> DNA
 <213> Glycine max

<400> 6316

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 agagtacacg ttctccattt tctggtgatt ttctcttcaa gtttacactt acatgtgat 180
 cattacattc cattgttgaa caatctgtgg agaaccacaa agaaatcaga tgttaccaag 240
 caatcagctt tttttccatt tccaaagcct acggtactaa attactaatc tcaaaagcca 300
 aaccaaaggg aatgaaaatt tccaattcga cccttatata tatatatata tatatatata 360
 tatatatata tatatatata tatatatata tatatatata tatatttata 420
 aaaaagaggg gccctgaata ataaaactct aaagggaacc ctctcgggca aaaataaaaa 480
 acatcccgcc ttttttttcc ccaaaacttc ttctccctc tctttttaga catatttctt 540
 accataacga tttgtccacc ttcttaacaa aataagcccc ctctgccggt cctgagaaag 600
 aatttttttt attgtgtgac ccctctttaa aaaaaccctc tttttttgaa aaaccctct 660
 ttgatcaaac aaaacccctt cttccaggt ggtttttgca cttaaaaaaa aaaaaaatat 720
 ttttccctt tttcccgggg attaat 747

<210> 6317
 <211> 614
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6317

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 aactcattc acacaaataa tgttcgtct aagtccaatt tacaacggt cagaca aaa 180
 caaaaagaag aacaaaaaaa aaagaaatac gttaaagtta aaataaatga taa aa 240

aaaagagtct actttctcgg caaaattgtc aagtcttggg ttggtctcct ctgcaccttc 300
 atcaccattt ttcaaacttg cactccaaga tactgttgtc aaaaaaatag ctaagcaatt 360
 gaatcagaga ctagtgactg gtcacaaatg aanaatggct ataaatattg atactgaaag 420
 taggttacgg gttcaaaaat aaataatact gtatttgaaa gataaaaaga gagagcaatt 480
 ttgtgagtgg atgttagtgt gatgaaagag attgaggcaa gcaagtgtg cccggctggg 540
 actgcgagta ctattattcc taacacggtc aacaaatata tgccctcgga ttataaatac 600
 tatgggttaa atat 614

<210> 6318
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 6318
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 tcatttcaaa ttgagatttg ctctctggta attgattacc agtagttgaa aatgttttaa 180
 tacaattttt taaaacctgt aatcgattac ataagtcttg taatttgatt accagagggg 240
 attttcagaa aataatttcc aagagacata tctattcaaa tgttttatga acgaccactt 300
 aaatgtttta aagagagttt ttattgcccc aacaagttta tcctctcgaa agatcaagag 360
 tttttctgaa ctggaatgtc ttatcctctc aaaaagattc ttgggcaacc acttgcttat 420
 ttataaggaa tttttgattg atctttattt t 451

<210> 6319
 <211> 616
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6319
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 aaacttccaa agaaaaacgt ccgattgatt tttttttatt attttattca aagatatttt 120
 gattatttta ttattatttt tcaagatatt ttgattattt tattattatt tttgcttttt 180

ttggtttaac cgagggttaaa acgtgaacga tgcattagat tttgttttaa cagtgattaa 240
 accaaattac aacgcaaattg atcgattgaa attcatttta tcatttatta agtgagaaaa 300
 cggcttaaac aatcgggttaa agctcggttac aaacggaaga aaagaaaccg aaagtgaaca 360
 aaataaagat gaaagcttaa aaaataagaa atgaattgaa agtctcggat tcaaaaactt 420
 acccggtgaa gaacgaagaa cggatgaaga acaatgaaga acgacgaaa accttcacgg 480
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 cgaaacaat ttttttcacc caaaatagct gaaatgcata gccagnggga tganggatca 600
 ttggaacagt cccatt 616

<210> 6320
 <211> 663
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6320

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 tccggatgac ctttgagaat tccgaaagaa ctttctggaa gaaagtgggt tttccgaat 420
 aatccgga aaacacttct ttcgaaagtt tttt 480
 taaaagaacg aataaataat tggatttga tccgagagct tcaacaaag 540
 aaggtttgaa atttggtttt gaaaataaaa gggccgcgc ccccccccc cccaccccc 600
 ccccttaa atattgaattt ttttaaaaaa aaatcgga caa cccccacaa gaaagggttc 660
 ccc 663

<210> 6321
 <211> 653
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6321

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cctaaggatg ccagatgatt aattatgtgt gtgaatctct cttgcatgtc ctgtatgngt 600
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<210> 6322
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 6322

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caccctcta ttaactaaat taacttcctt aaaaataatt accgatgaaa ataacgcaac 180
aaatattcaa acatcaaaca taattactaa tagtatatag atatatatat atcagggtgt 240
tacaactctc ccaccctttt agaaatttcg tcctcgaaat ttaccttact caaacaagga 300
tgggtgagct tctcacatct gactttctaa ttcccatgtg gcattcttctc ctgatgcacc 360
tcccagatc accttgacca acagaatctc tttccctc 398

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<210> 6323
 <211> 632
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6323

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 aacaagtttt ccacatccac aaagcgcgca taaaccaccc atccccctgtt gccacactcc 120
 aactgagctc acgtactccc acgtagccca taacctcggt tctctcaaca ccgggtcccc 180
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 cagcttttct cacttaaaga cccagtaac aattccttcg atccaattcg ttaaccgttg 360
 gatcgactcc aaaattttac tggaagtcta tagtacataa gcctacattt tgaccgttgg 420
 gatctactag caaacatcca gaactcatte tgcactactc tttccacagc caaccacaca 480
 caagcatttt tctgcacaaa gccaaaatcc tgetgcacct attttgacag canaattctg 540
 cataagtgcga gaattcgaan natcaccctt ctctcatcca atcttgccca aatcanatcc 600
 tacaagtccc aaatcatgta tcaatcatgt ct 632

<210> 6324
 <211> 577
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6324

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 acagaacctc agcaaaacaa aagctagaaa atttaaaata agcaaggaat gaggcacat 180
 gggtttgagt atttaaattt tgagtgttga atacatactc aattcctc ccg 240
 ctaacattgc ctaaacctta catagaaata atgataaatt gaccactac aagaaaatg 300
 tttatttccg acgaaatttt tcccacggaa aatatttcat cggaaatgct gaa c 360
 atggaattta ccgaaggaat aatttccatg ggaaattagc aaaaaatcga tg tgtttt 420
 tgacggtcaa ttattctggt ggaaagtga caattccgac ggattatacc aacg atgt 480
 gtatctgtcg aaaagtaaatt ttcccaaaca tatgatgcga acc ccc attgagtcac 540
 tatgtntttt tgcaagcttg gtatgttgat atgaata 577

<210> 6325
 <211> 702
 <212> DNA
 <213> Glycine max

<400> 6325

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atactacata tttatatata ttttttttaa accaacaagt aatttatata ttatgggtat  180
tagagatacc atcagttaca taaaataatc ctcatgtgatt aattgggtatt gcttctagtg  240
attgaataat gatatctatt aactagtagt ttaaattata ataattcgca taaaaaatct  300
ctctactcta ccacagcttt gcatatatgc acactttcac caatatttca tagggcccacc  360
ttgtttgttt ctaaattatc cacatttatt cacagacact tccactatct cattgctaga  420
aatactcaaa ggccgacttt gcacatgcat agcggttatac taataccacg tgttagacag  480
tggtgtgagt taggtaccta tgtgttggat gataatttct gaatcacgtt attatttttt  540
gttaaaagtt ctttaacttt tttctctcag cctctatttt tgtccttgca ttcaattata  600
tcattgttat ttaactctgt taattgaatg tggggctaaa agtagaattt ttaagaaaaa  660
aattggaaga aaatgataat aatcattgga ctaattttat ct                               702

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<210> 6326
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 6326

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agcttcaaga tgagcagtc tcttgcagc ccataattcg tactcctcac catcaaaaat   60
tggtggtgaa cctgctgtgt atgatgtttc tccctccatt gtgatttctc tcaactcaca  120
gatcccttaa tgataagagc tctagatacc tatttgttgt tttttttaat aacagcaggc  180
agaaatatta aagaatgaaa gggagcataa agtaagaaat tgagactgca aaagcttggt  240
ttattctgat atgaagcaac gtatttaaaa tcatggaaaa gatagtaact gctaacaaaa  300
agataacacc actaacagat catgactaga gaataggatc aaaactgctt tatcctatca  360
gtcaacatga cttttatttt tcctaaaaaa tagcaaaaga atcttatcta ctatagtttg  420

```

ttaaacagtt tcaacagtca catcttaaca attcaaaaca aaattgtgat aaactcatcc 480
 cttacatcta agtgactccc atgtg 505

<210> 6327
 <211> 506
 <212> DNA
 <213> Glycine max
 <400> 6327

tattctactt acaaaatcga gtgtcaattc ttgaagaaag tataaagacc acctctctga 60
 tattaccaat ttgataattg agaacaaagg ctcaagattc ttcaatgtac tctaaaattt 120
 ttttgctaag taaacaaaaa ttagattaac tacaaaagct aactagtaat ctgttaaaaa 180
 aaaaaaacct cttctcaacc ttgcattttg taatggaaga aaacaaatta aaatatgcaa 240
 tgataaagaa aaagttgcag acaataatat aaaagaagac aggagatcat caatgtaatt 300
 gtggttaagt tctggtgttt ctgcttttat ttcttagcat accaagccca tccattatat 360
 tcaaaataaa ttttttagtt gttatctaag aactttctaa ttattgaaaa gtatgtatgg 420
 acacatattt tttcaacaga tctacttggc atttttttga aggagttcat tacgttacta 480
 ctgcactcct aattttttgt agtttt 506

<210> 6328
 <211> 546
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6328

agcttgtttg aaggacaaat tcttattatg caaagcttgc aggaactagc tcagcaaagg 60
 ccaattatga gtgtagagca attcattgag aaggtggcct agcctggaac ccgaccttct 120
 tttgtaggga ataatgaaag ttttacagcc caggcacctc aacagcatga gctagaacta 180
 gaaaatgatc actcatctga agccatcatc cctggagctg ttgatttttc aaaaagaaaa 240
 ttagagacga gatccaatga ggctgctcat cctggaccag tgcccatacc agctaactct 300
 tccactccta tcttagaaat acttgagggc cagaccatac tagtcctggg tctgggcact 360
 tctctccaa ctactccagt attgcaccaa acagataaag aggatgttca ggcatangac 420
 atctaggact agtaacagga attttgattt ctgatgatac tttttgcttt ttaattttatt 480

attattatta ttttgggttt cgtacagatt tccttttaggt ctacatacac tactagtttt 540
 atttat 546

<210> 6329
 <211> 665
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6329

tcctcggggc cattcctgcg aaggcaaaca tttggaaagt taattttacc agtgggacac 60
 tactcttaaa gcaaaaatgg catataacct cctcccataa atacaaacat caatgtaaat 120
 ttagagcaag cttatgcgca tatttcctta cgaacgttct cttgcacaag acattctatt 180
 aactaagaaa aatgcaccca tacacaatca aggcagcttc gttacctaga ttatttacac 240
 gtacttccaa ggtgtatttg ttacttacat cacacacatc tccttgggcta aatttacata 300
 caggcatact caaagcattt tgggggtacca aaaattgcac atgtgcacat cttgggtattt 360
 ctaataccta tacatacgca aacttcatga tgaatcttga ctatcttcac aaaaagggtgc 420
 tacatttcat gctttttttt tttcaagttt ttgctactta aagccgcatg caaattcaag 480
 catattttcc tttgctgact aaaatcgtat tcaaattaaa aggtatattt tttgtaatat 540
 gttttcttca cataacatgc aacacattta tatacatttc ttgtgagaca tntttgacta 600
 ccaaaaattg gatatgcata cattcaatat ttttgatttc atacccaaag tgcaaattgc 660
 caaag 665

<210> 6330
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 6330

agcttgaagg caaactggat gcattgggta acttggtaac ccacctggcc ttgaatcaga 60
 aatctgtacc tgtcccaagg gtttgtggtt tgtgctcctt tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcacc cgaagcttat gctgcaaata 180
 tttacaatag acctcctcaa cctcagcagc taaatcaacc acaacagagc aattatgacc 240

tcttcagcaa cagatacaac ccttggatgg aggaaatacc ctaacctcag atgggtccagc 300
cct 303

<210> 6331
<211> 515
<212> DNA
<213> Glycine max

<400> 6331

tctatagtta tggaataatc gattatcaaa tgtgggttatt gattactacg atacacgaag 60
aactcctaag gtttcctaac acaatataaa tgattactaa acgggggaat caattatctg 120
gaaccaccac gacttccttc tgttggaact atcttatgta atcggtact aaaaatggta 180
atcatataat ttgatgattc ttatcaaatt tcaagagaag tgagttttgt tgcttgctct 240
aacactatgt aattaattac caaacttggg aatcacttac actatgccga attcattgct 300
tctaagaaac tatgagatta atacatttat cttatcatgt tggattccta ctaaacctat 360
atgataaaac taacgtctag agcacttgac ctgcctagtc taaaaacatt tgatagaaat 420
gtcacatctt aaaacacttg tttggcgctg taaacttatt aaaaccaaca gatcctaaca 480
ctattcttca agtcttcaat cactttgatt caaca 515

<210> 6332
<211> 528
<212> DNA
<213> Glycine max

<400> 6332

agcttgaagt gaaaaatggt aactggagca acccaatttt tacatcaaag cctaatacagc 60
atcaacacta ctattttaat ctttttctca taaaggattc aatcctactg atgttgtggg 120
gcaacagagt aatgcaaggc ctatttgatg ccagtaagta atccttttat ttccaaattc 180
agagcaattc caacaaaagg ttccatgacc aaccctaatt attaaagaac tcagttcact 240
gatatgtatg aataaatgat gcaagaaagc atgcaaacta tagaacaaca aagaaattgt 300
ttcttctgca gattctagat aatgccaaag cctaaagaaa caagctaaag tattatgggt 360
cacttgaaat attaaagtgg aagaaatgta acaagtaata ttgttttttg atgcatcaga 420
acaaatgcaa caagtaatat gatgctatta tacatcacgg atatagctta aaataaaaaag 480

caaaagggag gaaaaggaaa actccattta ttggactaaa ccataaaa

528

<210> 6333
<211> 362
<212> DNA
<213> Glycine max

<400> 6333

tgtaatttcc ttctttttcg atattttgag gtgacaaaaa gatttgtatc aatgggtgggt 60
acataaaatt cagaagaaaa atattattgt ttaagtgtgg ttatgtagtg gctaagtgga 120
gacatgatct gaataatcct tctactagtt cataagtgga ttgtctctgg agtaaaatag 180
ggacaacgga atgcacaaag atggggggtg gtggctagaa accataatgg aaatacgaga 240
ggcttttaggt ttccaatgac cccttcaaag cagtttttga agaccaatgg cgtagatgaa 300
gtcccttatc agttggacat tcatatttct aaagatgcag ttgaataata ctagcattct 360
at 362

<210> 6334
<211> 458
<212> DNA
<213> Glycine max

<400> 6334

agcttcatga tgaatcaaga ttgattcaaa gaagttttga tgataacaaa ggtgatgaca 60
aaaagttcaa agatcaagaa aaacttcatg ataacaaaga tgatgatctc aagaatgaaa 120
gaatgagttc aagatgttca agattgaatc aagaacactt caaggttcaa gaggaaattt 180
gatttcaaga atcaagaatc aagattcaag gttcaagctt ccaagaatca agatcaagat 240
tcaagactca agattcaaga atcaagataa gtatgaaaaa gttttttcaa aaactaagta 300
gcacatggat ttttctcaa acttgtttac caaagagttt ttactctctg gtaatcgatt 360
accagattga tgtaatcgat tactattagc aaaatgtttt tgaaaaagat ttcaactgaa 420
tttacaacgt ttcaattgat ttcaaaatgt tgtgatcg 458

<210> 6335
<211> 600
<212> DNA
<213> Glycine max

<400> 6335

tgttggccat ggatgagatc aactttgttg ggggaggaag catttcttat aatcaataac 60
ctaggcaaaa tcagaggctt agaaaagaag agagaaaacc aactcttcaa gagaccatgc 120
ttcaatatat ggcctagaat gaccaaagaa tgaagttgtt gtccaattg accaacatac 180
aatccctctt atcacaaga aagtcaagca accttcacaa cctaaaccaa atcctaagaa 240
ggaggatgtc aatgctgtga tgactagaag caagatgatt caaaaggact ccgaggagaa 300
tgaaggttct tccccaaaa ctgtagatga catccttcta agaagaacca agcaactagg 360
aaagttaagg ttcctactga tgggaatcct atggcaagca agaaggggtga gaaggaggta 420
ctgacacctc ctcagataag tgttccttct cttctcaa at gaagaccatt gtgactgagc 480
ctcacccaag tgtggggaag gaagatcctc caaggaagac agtcattcca aaagacccta 540
gatggagtaa gaaaaatgga gatagcatca ccattcaaac tcttggctat ggagtagatg 600

<210> 6336

<211> 397

<212> DNA

<213> Glycine max

<400> 6336

agcttggata aggtagcttc ggcagtgtgt actgggggtca actttgggat ggatcacaag 60
gacgactata atttttatatt agttagttat tgttgtgatt gttattgtta ccgttacgca 120
tcttgtgaaa tcagctggat ttctgagtct tctaaggtta ttcttgetca ttttaccgtt 180
ggatgggggg atctagtgat ccatttgctt taataatata tttgggtggc tttagatgtt 240
aactaaactg catattcgta agatgatgaa ccatatagat gagttttctc agacacatgt 300
tcttttcaat aatggcatac attgacagat ctagtaagtc acgtgattat tccccctcct 360
tgttattttc tttacagttc ccatacttgc ctaaact 397

<210> 6337

<211> 557

<212> DNA

<213> Glycine max

<400> 6337

tgtaatgcac ctgatgacat acctaagact gtcgtacgaa ctcttaatca gggttcatct 60

cctatgagca tggactttca tccaattcaa caatactttg cttcttggtc tgctgctctt 120
 ctaaaggctt ttttaataaca ttgatttgat ttatcacttg catgtttttg ctatcaagtt 180
 tcaatttgac ttttatttga tgcaatatgt cagttgggtac aaatgtgggg gacattgctt 240
 tgtgggaggt ggggttctatg gagcggttgg cctcaaggaa tatcaaagtt cgggatctta 300
 gggcatgtcc aatgccattt caggttttct ctttacctta atgtatgaat gatctttata 360
 tgaatttgat cttacctctg agactgtcat gttgtcatga ctgaagaaca ctaattatga 420
 tcaatgcacg cggctcttgt caaagatccg ggcgtttctg tgaatcgagt gatatggagt 480
 cctgatggag cattgtttgg taaactgaga atttataatt cttcaatgtt taaatgatat 540
 gatatagaat accttga 557

<210> 6338
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 6338
 agcttagtaa agtttagctt gaggcaagt gttagaatca gtgttgtaaa ttgcacaagg 60
 ccaaaatccg ccataaacat atggcggatg gcatgggtga caggaaaaaa atacacacac 120
 acataaatac taaaaaaaca tcagtgtggg ggaatttaac tcttgggtca aggaagcaag 180
 agtcgtgcat tgtaggcctg tggacaactt cactcagcac ttctcttttg ctgcttcgag 240
 ggctactaat agaaagtgga agatttgggt gatagcagcc acagtttcta tttggaacta 300
 taggaatgat atgattttta aaaatcaaca gtttgtcatc tctaagttgg tggataatgc 360
 aatttttctc acctgggtctt ggttgagggg gtgggaaaag gactttgccg tttcgtttca 420
 acaatgggtcc tcaactatgt cttttgcctt cacctaagt gggaa 465

<210> 6339
 <211> 651
 <212> DNA
 <213> Glycine max

<400> 6339
 taggaaagta taaagttgaa gtgggtctagg caatgaaaat agatcttatt tgaaaatggg 60
 ttgaatattg agttgcccaa aattgttttg ttataattct ggacacatca tgcagctaac 120

aaagataaac aagagtgaat gaaaagcaaa ggtccacgag ttctgtcatg taagtgggtca 180
 aaattgaaac tacatcaaaa agccaatgcc tttttgagaa acaagataac tcattgctga 240
 atcttatcat tcagtattca cctctaataa agtcgttatg attacttcct cttacaagag 300
 agatgaacac atttgaatgt gaccatgtca tcataaaatt tgcattagag gatccatttc 360
 cctctcactc ctttcatgca acattgtccg tttatgcacc aatttttaag gttgaagttt 420
 aatgctggcc aaattaaact caaccatatt gacacaggat atgacaaaaa aaccaataaa 480
 gcagttaata aacaatatat gtataaatca tactgatgat ggcaattctt gtcgagtagt 540
 tttttccttg ctgtagatat ccacatgctt tgaaaagtaa ttcttaggat tttgtaattt 600
 atccttgatt tttgcacaga aagaaaacct ttcactacct gagattacaa a 651

<210> 6340
 <211> 606
 <212> DNA
 <213> Glycine max

<400> 6340
 agcttttatt aataaaatca tgggtcaaggc aggctgagaa ggcagagatg atgcgattat 60
 gaaaagaaaa caatcaaata ttatttcatg agatctagta aaacaaaagc atttaacatc 120
 tatgcaacaa cattggtggc aacagggttc tagaccatat gaagacagat ccatcaccat 180
 gctgagaaat acaataggtg gcatcctcag tattgaaaaa tgtgtcaaag aaaaaaagct 240
 gctaagctaa ctaacaaggc acagcacaca gccaattgta aaggagaaca tgaagcagcc 300
 taaactgaca tcaaactgcc acttgacatc aagattaaat ttgaaacaat cagacgcaag 360
 tggttgaaac ttcacaaggc aaagataaag tgttgtaatc ctagccacac cttcatcaac 420
 atcagtgcac aaagctcaac ctatttatga aagacttttt tccatacact gctgtttgcc 480
 cttagtatca tgaaatccaa ccaacaaatt tgaggcaacc cagaagagca caacctaacg 540
 aaaccactt agttttttgt aattgtagat atgatgcaag ccataatgcc atactgagaa 600
 atccaa 606

<210> 6341
 <211> 674
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6341

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tggtattatt ttactcctcc actacttatt ttctggatat gttcatgtta attaatgcct   60
attaaatatt ttaatcccca acatatgaac acggaagatt ccagccaaaa gatataattg  120
aacacagaga ataccacttt tttttttggt ctagaagaat accacctggt taagagaaca  180
tgcatttaca agttattggt gggtttttct tcttcttatg atagcataga agaattattat  240
tgtgaaaatt ctgaagataa tttgtcttat cacatgaaag tttgaggaca caatttctgc  300
ccaaaacata agctcccatc actatctact tcatcaacag actacatata tgtgatatga  360
ttctaaaaaac aaaacactta taaacagcca gttcagttaa atccaagcaa tacttttcca  420
agtctgccaa cccttaaaat atgggttaga aaattaagct cgcccgccaa tcacatcaaa  480
aaggaaaatt aaaacacgtc cacaaaaata tttaaataca aagaaactca cgctgatata  540
ttagtttggtg gaaaaattct gtcttcactt tttccatact nagggtccgt gactgattca  600
tcagctaatac gctatcaagt ttcaaataa tcaaccaaatt attgagataa atgccacaaa  660
ataaaaaata aaaa                                                    674

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<210> 6342
 <211> 534
 <212> DNA
 <213> Glycine max

<400> 6342

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agcttgagtt cctatgacta agtcacaatt gagcatttac cctaacttcc acaagctacc   60
cacacatcca ataattggcac ccatgtatgc acaaaccaat tctataagca aaattcacaa  120
atztatgcgc aaatgccatt aaggcatttc accgaacact tgggtgggtgc acttttgggt  180
ataaacagga aaggaatgag ggcaatgcgg cttgcccaat catttcagaa cacaacctag  240
gcctaaggcc atcccctaca acccccctaat tcaacgaatc aaagcatgaa ttttccctaa  300
aatgtctcac gaaattggtc aactatgtac aatttagagc ataaaaaggc atcaatggaa  360
agctagagac caaaggatag tgtacttact tgcattggagt gatcaaggac actaaaatgg  420
aagcaaaaaag cacaaaatgg gggcctaggg tcagaaaaaa ccctcaatcc cgcggtgtgt  480
gcgttcttga gtgaagggga gaaatttttg gtgaaaaaaa ctgcacaccc cccc      534

```

<210> 6343
 <211> 580
 <212> DNA
 <213> Glycine max

<400> 6343

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tctcccccat tttctataaa tagggggaga agtgaagtag aaaagggttc agcccccttag 60
gcactttctct ctcttttcgaa tttgcttagg aaaattgttt ccgtgaagaa aatccaagcc 120
gaggcgcttc cgtaacgctt ccgagatggt tccgtaagca aatccgtgaa ggtttttcgtc 180
cgttcttcac cgttcttcac ccgttcttcg ttcttcaacg ggtaagtttt cgaatccgag 240
actttcaatt catttcttat ttttttaagc tttcatcttt atttcgttca ttttcgattt 300
cttttctttc gtctataacg cgcttttact gtttatttaa gccgttttct cacctaataa 360
atgataaaaat gaacttcaac cgatcattgg tgctgtaatc tcatttaatc actcttaaaa 420
cgaaatctaa ccgatcggtc atgctataac ctcggttaaa ccaaaaaaag taaaataatc 480
aaaatatctt gaaaaataat aataaaataa tcaaaatatt tttgaacaaa ataaccaaaa 540
aatcaatcg gacgtttttc tttgaaagtt tccttgaatg 580
```

<210> 6344
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 6344

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agcttttgaa ggtggtatgc tttggggaag aaattaggtg aaaatggctt cacctctccc 60
ccctttttaa tttttacatc agacacactc acccaggcga gctaaatttt tttttttttt 120
tttacaaaat tgggttatct attggtatat ttcttctaaa aatcctataa ttgcatataa 180
gcttaggaga attcaggata taattcaagg aaacaaacaa gcataaaaca ggaaattaaa 240
gagcaaagtt agagatacta gactgctca taggagcact tctttaacat ctttagccgg 300
acgcagggtg atgatcaatc gatcatgggc ctagcacctg ttcgtacctc ccccaaagat 360
tgaacaaaga aagtggcatc atgcaaatgt gaaacaatac tacacgatgc atgcattacc 420
tttcacttac ccctatttgt tatct 445
```

<210> 6345
 <211> 585

<212> DNA
<213> Glycine max

<400> 6345

tgagatgagg aagtgttgaa gggtgaaact ttttgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaagtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aacaccacaa 240
agcaaggagg cttgtgggtg ctggccagct gtgaattttg tgtgatatgt ggattatggc 300
ctctggtaat cgattaccaa gggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
aggctgagat ggtctctggg aatcgattac caaggggggtg taatcgatta ccaggcttga 420
aaacgaagtt aggaaattaa gggagccttt ggtaatcgat taccagcctg tgtaatcgat 480
tacacagagg gatgggtcac tggtaatcga ttaccaggta tgtgtaatcg attacacagt 540
gcatttttgc atattccatg ttctgacgct gtgtaattcg agttt 585

<210> 6346
<211> 452
<212> DNA
<213> Glycine max

<400> 6346

agcttcagat cactaaggcg gattcctata tttggtttta tctgcacttc ctccatattc 60
ttttccacct gaattgactc attgactgcc atgtgtgttt tttttcaaag gaatatcatc 120
atatacccaa aaaatattaa ctagttgcct agaatagacc tatatcacia aaaaaagcta 180
atctttcata ataaaaggaa ataaaacaac aaacttgtac ttgtacagag aatttttttt 240
ggaaatagca tcctaaagta gtgctattta caataagact caacagaaat aaacctgttc 300
tacaaatctg ttctaataat aaaaaataa aaagtagtaa gtagtaacat aattattcct 360
tttatattta aaacataaaa aatgtaacta tcctctaatt ttttttaatc aactctttcc 420
tcggcctaca taaaatttca ttggatccct tt 452

<210> 6347
<211> 616
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6347

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tttgtcctgt tgacttcatg ttgttttttt ttattatcca tacaatgcgc aggccgaaaa 60
tatgttatct gatatatatc caggaggatc tcccaaagtt ggctccacgt attgggatca 120
gatccttgaa gtgggagtc tctctgtgtc agggcgtctt ctgaagcgct tacagaagtt 180
cttggagcag gtgaggactt gaatattatt taatgggtga agaactcatt tcaagaaaac 240
cagaatgtcc cttacaattt gcaagctata gttccttatt ctgattttta gcagtggcac 300
aagccaacta tattactatg ttagcttttg ttatttccat tatgggtgatt gtatatgcag 360
atacaaaaca ctttcttttg cctccgttaa cagttttagt gtttgaagtt atgtgattgc 420
ctgacacggt atcatagggt ctctgagcga ttaatttaga gttcaatact ctctcactga 480
gcaatgcaca attagttccc tctgtcatct gcagtttatt aacattttca atttcctttt 540
tattgtgatt ttgccttac attttctgga gaattgcgcc aaattccacc tatacttnta 600
tgctcctatc ctattg 616

```

<210> 6348
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 6348

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agcttatcat tcaagaattt cgaaaatctt ttgtgttatt cacattccac ccaaagatta 60
tgtttactca ttttgaggtc ttcataatct ttgtgtgctt gtgaactttc tctccataga 120
tcatatcttt attctttctg ataattgaag atcattcagc tccctcagat ctttttgaag 180
atcttttagg tttttttcca actcctgaaa gttattaaga aaagtagatt ttatttttgg 240
caatcgtctc attttttaaaa caaagcttgg actctttttc cttgagaggt acacaagctc 300
cacatgtctg agtatactca ttcagtgaaa catttacttg atcttgaaga ttttctcaag 360
tttaaaagat ctttggatag tttttt 386

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<210> 6349
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 6349

ctgataggaa cgttgatggt ggctacgtcc gagtacgtga gctcagtcga aagtgggcaa 60
ctgggggatgg tgggttcattg ttgatttgt gaaagcggga gaattcgatt gcgccattcg 120
ccgatctcct cctagtagca catatgacgc gtgccccata atccactatg cttgaggtga 180
gaaagcgtgg aggagttagt cttactactt ttgtttgttg accatagagt gagacttgga 240
gatatgtcgc gggggtcaga gacaccttgt ggacgtcacg tgggggttcta ttgccctcta 300
ccttatttga ccac 314

<210> 6350

<211> 401

<212> DNA

<213> Glycine max

<400> 6350

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gttgtttcat gttctccaac tgtgcaaaat cttaatgctc ataacttgaa tgctcaagat 120
tataatagct ctagatcaag atgttcaaaa tgacacgcac cagattgcac taattctcca 180
cttatgctat gctcctaattg atccatatgt ataaattgat gcctacctaa tctatgaaaa 240
ggcccatcta tttcaggatc gaatggttga taacctaaag aatagccctt tcttcataca 300
ctacattcaa cctgcacaca aacttatgcc ctgtcctgct aataaaaagtg ttaggaatag 360
ctacagtttc cctcaattga catccaactg acttgtaatt t 401

<210> 6351

<211> 352

<212> DNA

<213> Glycine max

<400> 6351

tgggaagtcc aatggatctc gcatggatga tcgattcact atgcagacaa gagacccctt 60
tatatgcgat gaaacatacg tgtctgcaga gcgcaaactt catggaaatt gtgattacag 120
gggaattgct actataataa gctacatgtg atgaattatg tctctacttt tacatgacta 180
tgattaagat tttaatacat gggaatacca ctatgttgag ttgttagacg catcaaatgg 240
ctttgttgca caaatacact attcttatgt gcagcatatc tcaatagcat gcgttgacta 300

ctgtgatgac cagtcccgac atgggctatg acatagaatg tgaatttgaa ga 352

<210> 6352
<211> 626
<212> DNA
<213> Glycine max

<400> 6352

agctggacga gcttcaacat atgacgtcac cgttgacgca tttattgggc ctgatgcaaa 60
gccctgttgg ttgaaaacta cttgacctct aactgtttta agatgtttct cacaaacggt 120
gctcgtccca acaagctatc tatgcatgga ttttatgcaa gacttgtctg ataaacctta 180
cctatcgtac ggccttgacac tggcctattc ctaattcccc gaccctatgc aactgcata 240
ttgtttgcgc tcaacttcaga caaatggtcc aacaatgccc ttacttgatg actctatgca 300
tgtctactac ttttgcctact ataacatctt gatcctgacg catgatgagg atttatggat 360
catgggccta ggatgagatg gccctcgtgc ctatttggtt taccaacatg gaatgaagcc 420
gcacagtaga cgtgactgcg ctaccactta ccttggttta tcttttcctt gaattcggcg 480
ttgtattgac cattatttca aacaaatctt ctcttgctgt tcatgacata ggatgataaa 540
tatgcctatg cctgcatgct catgatcaag gcagtcaagt gttacaaatt taaccaaag 600
tttattatgt tcaattttac ttaaac 626

<210> 6353
<211> 293
<212> DNA
<213> Glycine max

<400> 6353

tatctgctgc tttagttaacg atgcactacg gtggctagcc ttagcggtcac tcacatgcat 60
gtggatgatct ttgacttact acaagaacaa tgtgatagtg gacgcgatac ttgggaagct 120
cccgccctct agcatatgca cattcatggg cctgatgcgt cttagagcag cttctaacaa 180
cttgctatct atagcacact cttactgata aaagcttctg aatatagata gatatatata 240
tagatatata tgtattgaga agaacaacct gtgctaccat aatgggtgtga aaa 293

<210> 6354
<211> 480
<212> DNA

<213> Glycine max

<400> 6354

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agcttttttg taatggatat gatttttact aacaaatatg gttaaacatt agactttgaa   60
tgtatcatcc aacgagtgca aaaaccaact tatttaaaat caaatgtgga ctatcgtcca  120
atgctagtaa aacagagttt tcaaaaaggt tttcaagtgc agacttgtgc aacaaagtgt  180
atcaaaatca acacaaaaga atactaatca agtagcttta gagagaagta gaaacacttg  240
gatttatacc aattcactca aacaaagcta tgtctagttt tcctttgcaa atcaataaag  300
ggttctacta atcaaaactt gattacaaca agtctatgta ccaaaagcga gtatttttca  360
gcctctatgc attggcgagt attttcccc aatactcagc ttttttcacc aaagtatatg  420
taccaaaagc aacttttttg cccttcgggc cttccatcac tcggaaaatc ttctcaattt  480

```

<210> 6355

<211> 663

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6355

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tgaaggtagg agaagatgag tggagggaga gggagtgaag aggcacgaaa ttttatgcct   60
caaatgaggt ctgaactttg aagtgttaatt ctcaaagat caaagttaca acaagtgtta  120
cacatgcttc catttatagc ctaggttagct tccttgagaa gcttccttga gaaacttcct  180
tgagaagctt ctttgagaag cttccttgag aagctagagc ttagctacaa acaccctca  240
aataactaag ctgcctcct tgagaaaatt cctagagaag ctagagctta gctacacaca  300
ccctctaat agctaagctc acctccttga gatgagaagc tagagcttag ctacacacac  360
tttctataat agctaagtcg tcatattccc acatggnttc ttcttctcca attntcaaca  420
aatatattca agggaaatga aacaccggaa agcataccgg gtcacaaagt atttaaaatt  480
aaaacagagt gatccgagta tcgaacttag ggaacttgct tattagacaa agttttatta  540
acgagtaagg cattgttgga acacacattg acaattgatg ggtaaaaaca gaaataaact  600
aattctatgg taagaataat aaatgcaagt aagttaaagt tgacaacaac aggtaaaaag  660
tgt                                                         663

```


<210> 6356
 <211> 713
 <212> DNA
 <213> Glycine max

<400> 6356

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tcatacctca caaaatatat atatatatat atatatatat atatatatat 60
atacatatat atatatatat atatatatat atatatgttt aggtagaaag ataccttgga 120
tatgcatgta tgtagcaaaa aaaatttcac aaaatatata tatgtatgtt taggtagcaa 180
gataccttgg atatgcatgt atatagcaaa aatatctcac aaaacatata tacgtatgtt 240
taggtagcaa gatacctggg acacacatgt atatagcaaa atacctcaca aaaatatatg 300
tatgtttatg tagaaaaata cctcatgaaa aaaaagagag cgagccagaa aagaattata 360
agaaaaaaaa atgaaagaga aattattaaa aatattaaaa attattgggg tgggtagcta 420
aaaaaaacat ggttgtgaaa gagataactc cagttttttt tgaaaaatgc gcttgtcata 480
accagttttg aaaaaaatgt gtgtacacat ttgaggggaa atgcttttaa aagtttttca 540
aacacccaaa tagactgggt gaatgcccaa attatagaaa acatttttgg gaaaactagg 600
tgacttaaaa agggaaatga aatccgagcc caatgggaca ggaacataaa aacttgtggg 660
tgagggtcca aggggtgcatg catgaacatt ttgcaaaaat atcctaaaca tat 713
```

<210> 6357
 <211> 557
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6357

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ttggagtttc caagtgccaa ttcgtcttct tctttagtcc agtcttcttc tggcttcaat 60
tcattagagg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
gctttccagg ttctgctatc cagtgatatt aggaaggcca ccatccttgc tttccagtat 180
tcatagttag ttccatccag aataggtggg ctgttactg gtctccttc tttctccatg 240
ttcatcagaa tttatctccc tagatctcac tcagtgatth cgagtgccag ctctgatacc 300
aattgaaatt ctgatactgg ggacagatgt cgtacaggat gtcacgacat cacgcttcag 360
aacatgcaga ttatagttga cagtgtggac agtttaaaca agaagataac acaagagatt 420
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ngttaaccca gttcgggtgca accttaccta catctggggg ctaccaagcc agggaggaaa 480
 tccactaaaa tagtgtagt tcaaggtcta acagccactg tttacaacct tctcacctaa 540
 ccactaccg tgcgatc 557

<210> 6358
 <211> 746
 <212> DNA
 <213> Glycine max

<400> 6358

gtgttgagtg atcgatgttg tgccctcttt gcgaaacaca aattgaaaat gcttttaata 60
 cgtttatcac atgcaacacg agtgaaggat cctggaagaa tctacatcta aagaaaacta 120
 tttttcaagc ctgatattta agctcttcca ttatctaagt gtaatgttga tgcctttcgg 180
 gattcattga atgtgactgg tatgggagct tacacccgag atgacaaggg gagggtagct 240
 gctgtgaaga cagatttcgt gaatccatgt ttgcaggttc caaaaggaga agcatgagct 300
 cttgcaagag ctattcagtt tgtccaatcg ctgggtatca ataatggatg agtcttttta 360
 cttacaata aacaagactt aaagtaaatt ttaatagcaa ttttttactt taaatagttg 420
 agtcttttta ctatcatata tatatatata tatgtatata tatatacata tatctttata 480
 tatatattat ttctactaag gtgtgggacc tttttttctt ataaaataat atttaaaact 540
 cagcctgcg ccaagttgtc taaattctat atttaaatat tttcatttaa ccctctaata 600
 tgcccctaaa ggaaattttt aatttacacc attgttttaa agttcaaacg agactgcaaa 660
 cccttaattt tttgttgagc ggccatttta tttaccgag gttacgtttc attttaattt 720
 ttcttggggc gttaaaatat ctatcg 746

<210> 6359
 <211> 611
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6359

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 ctagtctatt aatagaagca tgtgtaacac ttattgtaac tttgatgaat gagagtcttg 120
 tgagacatac ttcaaagctc cacttctcta cctcttttat tccttcaatt tcgtgctccc 180

ccctctctct ttctctccct ctttcttttc ctccattgaa gcacccctcc cagctttctta 240
tccaaggctc atcttggtgg tgaagctcct tcttccatgg cttattccct aatggatggg 300
gcctactctc acctcttctc ctttgtcttc cgctgcactc ccatggcgga aaatcaccat 360
taaaggacct cattgaagct caaagatccc gcctgcatag aagctccacg ggccagcttn 420
catcgagtgg taatcacagc acaagagctt caagtaggtg ctccctaaac ctccattaat 480
atcttgcttt accttctctt ccattgtgtg tcttcattat tttccatgta tctcctcaaa 540
tgtcttgctc taaatgttgg taacatgatt ctttagagtt tcaactgcata aacttgata 600
taagttagat a 611

<210> 6360
<211> 594
<212> DNA
<213> Glycine max

<400> 6360
agcttgcttg tatagccttt ttctttttac agtatagttt ctatgattgt gttagcaact 60
aaactatcaa cccacatgga atattcccca acccaacagt tcagtgttcc ctatgcacaa 120
actcatcact ctgtattggg gactcttccc acaagacatc accaaagcca acctcattgc 180
tttatgcact ttataccgaa tacttcagat gcaacaaccc tcctatttgc tcaactgcca 240
ccttggtttc ctatactaga aatttccaat aacacatcca gcacatgtga ttctatttgg 300
atgtatgaaa tcaactttgt ataagagaat ccataacatt ttgtgactac ctctaagttt 360
tacttaattg ctttgcttat agtttttctc gatatccctc tacctctagt ggctacatta 420
tccccatct gatctactct tcttttttagg gcttctacca gactttgcca tacatgaccc 480
aaccacctaa agagaaatct taccatcttt ttgcaatatg aactacacag actttacccc 540
taaatgcac cactcctaata ctatcttgac tagtatgtct ataaacaatg atta 594

<210> 6361
<211> 646
<212> DNA
<213> Glycine max

<400> 6361
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aacttaatac aattatagag agtaagcttg aatatgagag ctttacaact taagataatt 120
 acaaagagta agaagtgtccc taagtgcatt tctaacctga gagaaattgc ggtaagcgtg 180
 aaaagttgtg cttaatgccca aaagtggact ccatcttaac gagacacgct cgtcaagcga 240
 gatctgcaga ttataaatat gtttttcagc ctgaaaaata caatttcacg cctctctctc 300
 tcaaaactct gtccaaccac cctagaaact cctcctccac caccacgac caccggtggc 360
 caccacgagc tgccattgtt tgccgctgaa ccaccacact gagaggaaca ttttaatcgg 420
 agcggaatcc tcataatcca cctcaaggat tcggtggaga aaaatccctc aatcctttct 480
 tttgtagctt ctttgaggta atcttgactt ctaagtcttt ctcttaatta gttggagtgt 540
 ctcttagtgt ctcttggtg gttggatatt gaaatacgat ggttttacac ttcctttgaa 600
 aacccttgaa aatgagacat tgtaaaaagt aatcctttat aaaatt 646

<210> 6362
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 6362

agctttaaga ctattcacat aagttaacaa gaagcaataa aggatcaact gtgaaaatga 60
 attgcattcc catacctaga tcttctccac aattccttcg aatttatata tgcttagatg 120
 catgcaagaa aggattcaag gctaactgca aaccttttat tgggtcttgat ggttgtttcg 180
 taaaagggtg ctatggcggg catttgcttg caacagtggg acaagatgca aacaatgcct 240
 tttttgtgat tgcatatgcg gcagtaaata ttgaagataa agataactgg aagtgggttc 300
 tcactttgtt acctgaagac ataggagact acaagcaata tggctggaat ttcatgtcag 360
 acatccaaaa ggtgccatta aatataaaaa gttgatttca tgctgcatg ggataatttt 420
 gttgtcatgc tagcaatatg 440

<210> 6363
 <211> 624
 <212> DNA
 <213> Glycine max

<400> 6363

tagaacaata tacttggcct tcatttaact gtctttgggc ttggcggcca cgatcaacaa 60

agtactttcg acacctaata tatgttgatt tgaccaacgc tgttatcgga atgttgcgac 120
 aatccttcta aaccttattt ttacattctg agagggtcat tgtcatgtgg ccataccgac 180
 gtccttctct atcataagcc atcgtccatt tctcctttga aatgcgatca atccatgttg 240
 ctatggctgg acttagttga cggaattttt ctaaattttg ataaaaaatg tgtttgcaag 300
 gagtgtagcc tgcataaat tagttagcaa caacaatttt aactataaat caaacttaaa 360
 ttaatgtgac catgataaat gaaatgttac ccaatttctt caacatttct ttttgtttgg 420
 cattattgaa tttgcgattg aagttgcttg ctatgtgtcg cacgcagtaa acatgataac 480
 catggggagg ttgtcaacca agtgtttcgt tggccacaac agactttata ctgcggtgac 540
 gatcagatat gagacaaata ccatgtttat ttgtgatgtg ttcacgccag tgtgccaaaa 600
 accatgacca cgcagtttac gtct 624

<210> 6364
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6364

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 tgtatggaaa catcgagcgc aatacagttc ccaccccaaa cctgaacca ataccttctc 120
 aatcacaata ttatcttttag tcccattatt cacaattatc ccatgcaacc tatgacactt 180
 tagctttatc ccaacaaaaa aaatatattga accaaaaaaa tgttttacct aacttctttt 240
 tgcatacttt tccacctatt tttttgagtc ccatcttggg gatcatactc acacgtactt 300
 cagtaccctt acagtggagc ctctctcatc aatccgacca aacgagcttc agttcacagc 360
 aaatccaggc ttacctaacg aagaacacgg tcccttttagt gaggatgaag acaaatttat 420
 tcacaattaa cctangaggg agatgacgag gaagaagcct ggtctgtttc accaatcaca 480
 accatattgc catgctacat accaccccat atccaaaaat ttgaaaaatt ctattttcaa 540
 gattttgaac atg 553

<210> 6365
 <211> 709
 <212> DNA

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6367

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actgctcttc cttcccgoga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggcatt tatcaggcta gttatgccgc cgttgtcttt 180
gcctaaacctt attccgggtt cataaccgtt cccaacata actcggggcca tcattactgc 240
tgcacgcgac agacaaggct gccagagaa ggagtccacg gaggaatgc tgaccacctc 300
aaaagactgg aaagtgggtt ctaacgattc ttttgcggtt tccacataag gcatagagga 360
tgggcagctt accaagatgt cttcctcgac tgacacgatg accaagtgcc cctccactac 420
gaatttcaac ttttggtgaa gtgtagaggg cacaactccc attgagtgga tccacgggcg 480
ccccaacaga cagctgtaag gggggttcat atccattatt tggaaggatga ctngacaggt 540
gtgaggggtc anttgacttg ggagatcgat ctctcaccta acctctnccg gagtgctgtc 600
gaatgcacga accaccatct gactaagctt taagtgggaa gcattgaatg gtaatttctc 660
caagtgtctt tcggcatcac gttta 685

<210> 6368
<211> 441
<212> DNA
<213> Glycine max

<400> 6368

agcttcttga agcgtaagaa acaaattcac ttttatggga tgttttccaa acatataatt 60
ttaaaggaaa aaatatgttt actccgtttg caaaattctt gatttttagat gctgggtcta 120
tattttacca ttgaacattt tgatcccgaa caaaataagt attattagtc cattgagaca 180
atactgtaca aattagatta accgcatggt tgtttttcag tttcaaaccg atgtttggag 240
taaaatgaat ttacaaaag catttaaate cttcctttta caaaactaat tttgcggaac 300
attacattta ttttgaaaat tgggcactac atttttaact aaaaatcaaa catgcactct 360
aaagactttc ttatgagaaa tggtagactt tgagcaacag tgcttcatat ttctatgata 420
attataaact acaattttta c 441

<210> 6369
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6369

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 taaaagtaaa acaataaata ttttaatgat atgagacact taaagaatta aaattaatca 120
 aaatatttaa caagaataaa agtgtatttt attaagtgtta ggagtaattt tacaaaaatg 180
 cgtaatttt tttatcttaa taaattagtt aattgggtct taaaaattca gcaagagtaa 240
 aaataataat aattnatact tcttccttct ctttttctat ttataagaca tttcttaaaa 300
 agactatttg tacttttata taatactttt ttcaaaaaaa attattaatt attttttaac 360
 ccanatatat ttattcattt tctcctgaac gccatanagt aactaaatac attctttttt 420
 cttctctcgt aaaaaccaca caacatgact gaaacatatt aattccttac gcaaaaatta 480
 agatttgctc tgcattatat atttgagtgt agatttttagt gaacatatcc aattttggga 540
 cgaacacatc atacgtcaag aattataaaa aaaataatgt attt 584

<210> 6370
 <211> 514
 <212> DNA
 <213> Glycine max

<400> 6370

agcttgagct tggttcaacc ccgtaatcca aggaatggca attctgatcg ccaatacttc 60
 aacaacatct catagggatg aatgactcgg gcatacttta agcttatgca tggaaaatgt 120
 aattatgaaa ttgagatgcc cgaagaaaca ccatttccta gttaaccatg cattaggtac 180
 catgttcaat tattttgttt ttaagtgaat tgggtttatg atcccaacat gggtggctca 240
 tgggtgcctaa cacatgaaac taagaatgta gtgtgaagtt tcacgcttcc cttttttttg 300
 tttttgtttt gtagaggaaa acgcaaggat gagcaaacat gaaaacaaat ggtatgcaat 360
 tttgcagatc aaaaagtttg ttgaacgcat atgcatgata atgccatgac tcatgcaaaa 420
 tgtgaggctg gaatatgata acggacaaat gcacgatatg tccattatga tgttatgaaa 480
 agatgcttat gcgatgcatg atatgaatgc attt 514

<210> 6371
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 6371

tccacaatat ccaagcaatt caattccaaa tatcatgaaa ctaccctaag ccaagaaaac 60
 agagtagagg cagaaaactc tgcccaaaac acattcaaatt accacagctt tccttattga 120
 tataccccag taacattctc ttcgttccga tttgttaacc gttggatctc cttgaaagtt 180
 tttgtggaga ttcctagtag ataaataaac attttgaccg ttgggatctg ctgaaaaatg 240
 tctggaaccc gatatgtact actcttccaa tgactagcaa tgcacaagca ttattccgca 300
 catttgggtca agttggttgc acaatttgac agcattttgc tgcacaattt ggcagatttc 360
 gaaatccaac ttgccacat ccagtgttgc tcaaattgga tcctacaagt cctaaatcat 420
 gtatgaatca tatttgaacc aaaaacaagc ttcagatcaa ggtaaatcaa aatctatgta 480
 tccaaaacc atcaatttag tggattttaa agtttgaaaa gtgaaaatga gacttgcgta 540
 attttagggt aaactctcat ctcaatcaag tctataacat ttgatt 586

<210> 6372
 <211> 552
 <212> DNA
 <213> Glycine max

<400> 6372

agcttccatt ttcaattgog agcatctcga tatattacgg gactcaatcg tacattcgag 60
 taaaaagtta ttgttgtttg aatatgctca catcttcagt attcaatttc gagcgtctca 120
 atatattaag ggacttaatc ggacatccga gttaaaagt attgtcgttt gcatttgcta 180
 cgagcttccg ttttcaatta cgagcgtctc gatataattac gggactcaat gcaacctccg 240
 acttcaaagt tattgtcatt tgaatttgct acgggctttc gttttaaatt tctagtgtct 300
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 tcagagcttt cgtttcaaag acgagtgttt cgatatgtta cgggactcat ccgaattaaa 420
 aagtattggc gtttgaattt gctacgagct tttgtattca acttaaagcg tcttgattat 480
 gttacgggac tcaatcgaac atccgagtaa aaggtatatt gggttggatt tgctacaagc 540

ttccattttc aa 552

<210> 6373
 <211> 559
 <212> DNA
 <213> Glycine max

<400> 6373

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 cagaccaaag ttgcgtatgt aaaaaaattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggg acttgaacct 180
 ggtgatgatc ttggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
 catgaaacag gccaaatata gtctaaaggc ccaagtggag aaggacgaag gcccaagtgg 300
 agaaggacaa agcccccgag tggagaagga tgaaggccca agtggagaag gatgaaggcc 360
 cagaggcaga gacactatca agactattaa ttgatgctga aggccaaagat taatttgaag 420
 gcccataata aatatgttct atttagttat aatttttatt tattgtaatt ctggcccata 480
 ctggttagaa ggcccatgtc tatatttatc tctttgttta gctacactat aagtatgggt 540
 ttttgttatg aataaaaaa 559

<210> 6374
 <211> 481
 <212> DNA
 <213> Glycine max

<400> 6374

agcttggtta ctgttagatc attgtcaa at ttgaacacca ggtttggaac ttatTTTTgc 60
 acattcccac agttgggatt tgtgaaataa tattttctgt aagagaaatg tccctcacac 120
 gtaactttct tttctcgcat atattcaa at ttgtcccatt agaactatga tcgcagactc 180
 ttttaactgt caatcatcgt gaaatttgaa caccagggtt ggaacttatt tcctcatatt 240
 ctcatcgttg gaatttgtga aataatatct aggagagata aatgtcccta gcacaaagac 300
 attgaaatag aggttcaat ccttctcct tctctctaac gcttggaaac cttagcagag 360
 caaccagaga aaaagcatga ggaatcttat gaattgctag agactctcca tattgtgaga 420
 atcatttttg tataatttgg ttgtggtcct ggacaagatt tactagatta tcgcgataaa 480

t

481

<210> 6375
 <211> 640
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6375

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 aagaatctca cattgggttaa taagggttgg cctcaaaagc ttgatttttaa aatgattata 120
 taaagcttta aaagatgttt taccagcaca aaaataagtt tttttgcact ggtaatcgat 180
 taccaagtat tgtaatcggg taccagagac aaattacata aaaatatttc tagaaggatt 240
 ttgaaatttg aatttcaaatt gttgtaatcg attaccactt gtctgtaatt gattatcagt 300
 gacaaaactt cataagttaa ctttgaaaag tcatgacctt caaaacataa ctgtgtaatc 360
 gattatcaag acattgtaat cgattaccag tgagagaatt tttgtaaaat attctgaaaa 420
 gtcacatctc ttcaaaagtt tttgaaaagc caccaaggac atataaatat gtgacttgtc 480
 tatgaaaata tntagagttt tctgatgcaa tcctaccccc acaagggcat tagatagaag 540
 actccaagta gatcgggcta gagatgcaag agaagcccta tggttctcat gaggcttang 600
 gtagaattca agcccatggg ctaagtatga ctccacttta 640

<210> 6376
 <211> 443
 <212> DNA
 <213> Glycine max

 <400> 6376

agcttggtggc tgaattatta cggactaact aataaagttt ataatttata aggctttgga 60
 tttgctatta atgttgaggg tcttatatat gcttcagcca ccttctctct ttcctcgctc 120
 aaactattgt aaaccaaaaa ctccaccttc tttcccaact tcatgatcat gtggcagttt 180
 atattataac aatgttttag taacataatg atactathtt tagaataatc acacaggaaa 240
 ctaagctaaa ttttgtecca gagtgatttg tttctcgggg atttgaaaat cactatcatt 300
 ttatgtgtgt gtctgtgctg ctatacgtta ttcactctgt actattgggt tggatctggt 360

gaataaaaaa aaatatatct ggtaaaaagtt tgaaatctct gttggaacag aagtattttc 420
aaagaaaaat acctattgaa aaa 443

<210> 6377
<211> 649
<212> DNA
<213> Glycine max

<400> 6377

tgaagtgtcc agttgtgatt tttgttttcc agttataatt ataaatttga ctttattttc 60
taactatcta aattcttatt ttatattatc agatagtctt tttggggata gacaacatcc 120
atgcgatgag agagagcttt gttcggctcc gagaatacat ggacactcat ggaagaacgt 180
catcagatgg aatgtcctct tttttggtta gtccgtgaat gttaaaacaa aatgtaatta 240
tcatttttca ggtagtgtaa atttatttgg ttcctatata gacctgcaca atatttatgt 300
tttagtcctt acaccttaaa attaaaaact acttgtttta gtcccaatac atacactttt 360
taagtcgctt aatccctata gcttctgctg gacagggatt aaaacggggt aaaaaatgta 420
tgtgtaggga ctacaacgag tagcttctag gtgtaggaaac taaaacatac atatggtgca 480
taggtataag gacccaatga gtaattaaat catttatttt taatagtata tatttgatat 540
ttgaagagtg atactactat tagctgtata atgacacttg tagattagat atttaatctt 600
tcttcatgat gcttaatata tatcttaata ttatttaata cttttttct 649

<210> 6378
<211> 362
<212> DNA
<213> Glycine max

<400> 6378

agctttgatg caacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tagtggttct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaagcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc agaagtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaacaagc ttccaaagga gagagccaga aatgaagagc caatggttga 360

ta 362

<210> 6379
<211> 583
<212> DNA
<213> Glycine max

<400> 6379

tatgaccatt cgaatttctc aagagtttcc gttgttcaat ttcgagcgtg tagatgagtt 60
atgtccccga atcggacatc tgtgtgaaaa gttatgacca ttcgattttc tcgagagcctt 120
ccgttgttca atttcgagcg tctcgatata ttatgacccc gaatcggaca tctgtgtgaa 180
aacgtatgac cattcgattt tctcgagagc ttccgttggt caatttcgag cgtctagatg 240
agttatgtcc ccgaatcggga cattcgagtg aaaacttatg accattcgaa tttctcgaga 300
gcttccgttg ttcaatttcg agcgtctcga tatattatgt cccgaatcg ggcacccgag 360
tgaaaagtta tgaccatgcg attttctcga gagcttccgc tgttcaattt cgagcgtctc 420
gatatattat gtccccgaat cggacattcg tgtgaaaact tatgaccatt cggatttctc 480
gagagctctt cttgttcaat atcgagcgtg tagatgagtt atgtcctcga atcggacatc 540
tgtgtgaaaa gttatgacct tctattttat cgagagcttc cgc 583

<210> 6380
<211> 407
<212> DNA
<213> Glycine max

<400> 6380

agcttttcaa atgggtaaaa gggtcacatt cactttcttc tacattatat tcaaacttgt 60
ccaaataaat aataaagtca tctcgactca aagaaagtca tataagtctc atacaattaa 120
tatagaacct atatccta atgtcacatcct atcagagcgt ggtgttcccg tgtcctctag 180
catgaggttc ttcatagtca tccacctatt catctgtccc cccgaacaca agttcaagat 240
catcacagga tccaaacaca acaacacaca gggagtgtat tatcacattc ctagctaata 300
gagaaacaag acaattaaat atacatatta tataaatgag ataccacttg cttaaacata 360
actcacgtaa cttcaccact tcgtcattca aaattcactt ttttaatt 407

<210> 6381

<211> 605
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6381

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tggccatatt cctaattctc ctctccttta actaaacatc ttgttaatat ttgggttatt   60
gtatatttct taatactcat aaaattctgg ctcaagtttc aattctcact ttcacggagg  120
taagatccta aattccaaat caatttatgg attatttgat ttttaattgaa tcattgtgct  180
tatacaaaca cccactcata ttatgggtta ataatttgat tcattttttac ggggtgttgta  240
agtagattat ggatgcaagg aagggtgttct atgaaatgcc tgaaagaact attgtttctt  300
agaactcggg tatgactgct tgtgttgaga gtctttcatt gngtgatggg attgagtatt  360
tttttaggat gtgggggtgt gcgtttgagc ctaatgagac ttocatgggt gtgttggtgc  420
tctctacttg tgttcttcaa gctccatcca tttctatttc ttttttatta attactaata  480
atactatata tgctattgta attgtattaa taatgagtca ttaataatac tatatantgt  540
atggctacta tatatggcta ttactngtag ttgaattcaa tgacttattt tctgatctcc  600
gatgc                                                                    605
  
```

<210> 6382
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 6382

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cagtgttat ttttccaccc acatactaca gatactgcag aatttctgcc ttaaataagc  120
tgcagtgtt gtacataact tcaattaatt tgaatctgct ctgcaaatgc tgcagaattt  180
ctgccttaac caaattagga ttttccaccc agataccatc aatcagcatc cccacaagt  240
gaagaacaaa tgggatgcaa actcaggctt gttgtggcag aaagggcata agtcactgtc  300
agtttgaatt tgctcttcg ctaggttata cttagtagga agtctatccc ataacaacct  360
ccaagcaaag gacaaggcta tcggggggaa ttaatatcc cagagttgct ggaatgcaa  420
gtactgaac                                                                    429
  
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<210> 6383
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 6383

tattggcact aattggctat gaatgtaaat aaggcttctg acactactga ctaacctatc 60
 ctgtcactac attctgcgtg gacctaattct tcatacgact acactatgtc acatcaatac 120
 tgaacttgaa aattcactga atcttttggga ctgactcact tagtgttttg ctaatacatc 180
 ataattctat tccaaaagtg aaatatttaa caaaggctaa caattatata cttacgtaat 240
 tattatgcaa tataatatac gtaatggcta acaattatat ctaagatagt actatagaaa 300
 cgtcactcta ttgaacgaag tgtctactgt gtact 335

<210> 6384
 <211> 479
 <212> DNA
 <213> Glycine max

<400> 6384

agctttcata ggtgaaatca ggtgcagcca ttcccttag agtcctctca cgagggtggag 60
 gttgtgtcat gttctcagac tgtgcaaaat cagaatgctc agaatcagaa tgctcaaaat 120
 tataatgctc aagatcagga tgttcaaaat gaccaataac agaatgcaca aattcaccag 180
 ttatggaatg ctcagaatga tcaaaaggta taaaatgatg cctaactaat ctatgaaatg 240
 tcctatctat ctcaggatca aagggtttga aatcagatgg aatgcctcta gtcatacact 300
 acattcagca tgcacacaac tagttgcctt gtcatgtaaa taaagggtgta ggtttgagct 360
 acagctaccc tcaaatgata tccaaatgac ttgaaatttt gtgagccacc ttataaaatg 420
 atgagaagat agcccaaaaa atttcagaca aaaatcaaag tctaactatg aaagctaaa 479

<210> 6385
 <211> 695
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6385

tgggaactcc aatgtagctc gcaaagatgt tagtaacaaa aagcagacaa aaaagtcctt 60

tatatggatg aatttcccg tctgttgatg taagacctga tggaaattgt tattacaggg 120
aaattgcaac tttaatatgt tagagggtgag gaatcatggc tctacttcaa caagacttga 180
tttaagatct tcaaacatgg aattctcaat atgttgagtt ttttggcaca taagatggtc 240
ttgttaaatt attagactct ttgtatgtcc agcatagccc aatagcatcc gttgacaagt 300
ggatgaccat tcctgacatg ggttatgtca ttgtaattga atttgtaaac aggaatcact 360
ttgtgttggt atacaacata ttcttaagag attttttagt attgtaacca ttaattgatt 420
tgtttgctaa cactatatgt ttttctttaa taacctatat gtatttgaag gatgattggt 480
ccctttgtaa caccctgaaa tattactaat tataaatcga tgtttaattg tatttatcat 540
ggttattgac tatatggctg actctaata gttgacgtat gtctcgaatt antcatgtgt 600
gaatttcttg atgtggatgt tgagttatgt ggacgtttgt tgagctaagt tgaaattatg 660
agaattcaaa aattacctaa acctatttga gtaaa 695

<210> 6386
<211> 548
<212> DNA
<213> Glycine max

<400> 6386

agcttttcaa atgggtaaaa ggctcacatt cactttcttc tacattatat tcaaacttgt 60
ccaaataaat aataaagtca tctcgactca aagaaagtca tataagtctc atacaattaa 120
tatagaacct atatcctaata gtcacatcct atcagagcgt ggtgttcccg tgtcctctag 180
catgagggttc ttcatagtca tccacctatt catctgtccc cccgaacaca agttcaagat 240
catcacagga tccaaacaca acaacacaca gggagttagt tatcacattc ctagctaata 300
gagaacaag acaattaaat atacatatta tataaatgag ataccacttg cttaaacata 360
gctcacgtaa cttcaccact tcgtcattca aaattcactt ttttaattatc aatcacatta 420
cacaagaatc ccacacttcg atcaagatat aataacacat caattagcaa gcatatgcaa 480
tagttatgct aagactccaa tttatatgcc atgtggaacc atgtcagtga aaaaccaccc 540
tggggcgc 548

<210> 6387
<211> 675
<212> DNA

<213> Glycine max

<400> 6387

tggccatatt cctaattctc ctctccttta actaaacatc ttgttaatat ttgggttatt 60
gtatatttct taatactcat aaaattctgg ctcaagtttc aattctcact ttcacggagg 120
taagatccta aattccaaat caatttatgg attatttgat ttttaattgaa tcattgtgct 180
tatacaaaca ccactcata ttatgggtta ataatttgat tcatttttac ggggtgttga 240
agtggattat ggatgcaagg aagggtgtct atgaaatgcc tgaaagaact attgtttctt 300
agaactcggg tatgactgct tgtgttgaga gtctttcatt ggggtgatggg attgagtatt 360
tttttaggat gtgggggtgt gggtttgagc ctaatgagac ttccatgggt gtgttgttgc 420
tctctacttg tgttcttcaa gctccatcca tttctatttc ttttttatta tttactaata 480
atactatata tgctattgta attgtattta ataatgagtc attaataata ctatatatgt 540
tattgctata ttatattgct attacttgta gttgaattca atgacttatt tctgatctcc 600
gatgcttatc ataatggtag agatacaatg tatttgcct ataaaccttt ggttatatta 660
ctctatggat tttaa 675

<210> 6388

<211> 529

<212> DNA

<213> Glycine max

<400> 6388

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tactagaaaa accatcaaca agtaaagtct cattaaactt ttcatgccat tgtttaggaa 120
cttgttttaa accatatagg gatttcaaaa gtttgacat tttgttctct tgaccatcca 180
ccacacaccc cttagggtga gtcatatata tctcttccgc taaatcacca ttcaagaaag 240
ttgtcttaac acccatctga tgaatcacta acttatggat tgtagctaag gctatcaaaa 300
tcctaattga ggaaatcctt gtaatagggtg caaaggata aaaaaaatct atgttaggtt 360
tctaagtaaa ccctttagca atcaaccttg ctatgtattt atctataaaa tcatcacgat 420
tatacttcct cttaaagatc catttacatc caataagatt tgcacctca aatagatata 480
ctaaattcca tgtattattc tttttaataa aatcaatttc aatcctaatt 529

<210> 6389
 <211> 722
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6389

tgataagaaa gaagaaagta ttatgcaata acaagataaa ttaggtgtgg ctagtaaaga 60
 aaataaacta tgaaagtaag caagaaatta aagtgaaga aatgtaaact aggcggatcc 120
 taagagtgtt tggatgacct catttaaggt ttccaacaaa atactcacta tcctaaagaa 180
 aaattgccta aaagtattac acacaaatgg aagtaggggtg acctattgga ggctcccaac 240
 ttacttccaa tgaaaggcct ttttgttata aaatttgaaa gcaatgaagg taagtaaatt 300
 ctcaattaaa aaaattacaa aaaggttctc aatttttgggt gattgttctc tctttggtga 360
 ttactcaat ttggagtgtt tcttagtcca atagctctta aggttgtttt ccccttgctt 420
 cttgactcaa attcttcaag ggatgacacc aatcctcctt tccaattccc tatatggcaa 480
 ctcacaaaca aggaaacaaa gagacaagca ataaccaag acccaaaaaa tgaaatgaaa 540
 gctaaaccaa tagagtttta acaagacaaa ttttcaggaa tttttcaaca attaaagcac 600
 ataaaagaaa gctaggactc anagagaaac ttagaatgac tctagagtag agtanaanaa 660
 acccaaatta aaaagactca ngaaacctcc tagttttgga acttggtttt cacactaatt 720
 tt 722

<210> 6390
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 6390

agcttttaat atgtgcttac gagtgaactg gtctatactt atgttattca ctcaacagtt 60
 gtgtcttgat tcaccaattg tcattaacaa gttcccttta ggttgaacat cttgacttca 120
 tttgactttt acaaattctt tataaaggct tgctatatat gccggttatt ctctgatata 180
 ccactggaaa atgtaaagggt ttttctcat ataattgttt catctaaatt tctcacgaag 240
 aagattggga agtggttgtt caactgggtg gtctttcttt aggcgtattg attctggtaa 300
 aatacataaa attttctgga tggctttatt acttgttacc aaaacacctt tttgttgga 360

ctatacatc ttttaacttt ttattgcagg atacaccctg gccttgtaaa aacattatgg 420
gtaatttcaa taacttggtt gagtatgcc ctactgcatt cttttgc 467

<210> 6391
<211> 675
<212> DNA
<213> Glycine max

<400> 6391

ttgaaaagta atgtagaagc tattgacaaa tattggtaca gttgataaat attagactca 60
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tgaatcattg ttaatataaa aatcttattg ctagacaatc tgttaatatg tccataagca 180
ttcaataagc tttgaagcat gttgtgaacc ttaaaatcca actcactctc actccattgg 240
gaaaaaata agcttccact gaaattagca tagttgactt aaaggcaatt taatattttg 300
attttgcaaa aagtcaccga caatattcat ttttagtaat gtgtttttta tattttcttt 360
ttgacatatt ttttattttt agtttcagct ttaattaaaa ttcattgaaa gctataaaag 420
tataagattc attaaataag tgaaaaacac tgaattttta attttcaata aattttaata 480
aataaaatag agttcaattc attgagttga taaaacaaat tctagtgagg ttgccactat 540
actacatcat caaagttatg tatcgattta tgtgcgggga ccatacatc ttgcatataa 600
aatctcgaaa ggagttttgt gtccccactc aagtaaaacc gcatactaca ttttaattgag 660
atgtgaaaaa aataa 675

<210> 6392
<211> 397
<212> DNA
<213> Glycine max

<400> 6392

agcttctagt ctcaattttg agcgtctcga tatattaccc gattcaatcg gacatccgag 60
taaaaagtta ttgtcgtttg aatttctctac gagcttctgt tttcaatttg gagcgtctcg 120
atatattaca ggactcagcc ggacatcctt gtataaagtt attgtcaatt caattttctt 180
agagcttcgg atcaaaaatt tgagcgtctc gatataattac gggactcatt cagacatccg 240
agtaaaaagt tattgtcggg tgaatttgat acgagctttc gtttttaatt tggagcatct 300

ctcgataaaa tacgacactc tgtcgggcat ccgagtaaaa gttattggcg tgtgaatttt 360
ctaagagttt ccgttttcaa tttgggagcg tctgata 397

<210> 6393
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6393

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atcgagacgc tccaaactgt aaacggaagt tcgtaggaaa ttcaaacaac aatatctttt 120
tactcggatg tctgattgaa tcgggtaatc tatcttgacg ctcaaaattg agactagaag 180
ctctgagcaa attgaaacga tattaacttt atacacggat gtccgggtga atcctgtaat 240
atatcgagac gctccaaatt gaaaatggaa gctcttataa aattcaaacg acaataactt 300
tatactcgga tgtccggcag agtctcgtaa tatatcgaga tgctccaaat tgaagacgga 360
tgctcgtatc aaattcaaac gacgataact ttntactcgg atgtccgatt gagtcccgtg 420
atatatcgag aactcacao tttagatcca aagctctgag caaattttaa cgacaataac 480
tttctacacg gatgttcagt tgagtcccgat gatatatcga gacgcttgaa attgaaaaag 540
aagctcgtac caaatccaac gacaataagt tttactccga tgtc 584

<210> 6394
<211> 363
<212> DNA
<213> Glycine max

<400> 6394

agcttgtacg cgatgccata tggctattac ttgcaaagtc ctattctgaa gccaaagacta 60
ctgcatgggt gaatgaattg tgcattgctc gggtaactgc aataacttct tcgctgcttg 120
acgattgttt tgtggaggca tccaatgctc taatgtcaca accaattact aaaggagcct 180
atatatatgt atgtacaaaa aaaatgtact tattatgcaa aatatatttt tctcaagca 240
attctttata tggaaatgtc taagcaacat gagttaaatt attagctaca agttacctta 300
tctaattgcc atatgctgaa atgagcgaga tattcttctt gttgaatgcc tccattttca 360

act

363

<210> 6395
<211> 298
<212> DNA
<213> Glycine max

<400> 6395

tagggactat gattctccac cattacaggg gctggaccct actgttggag attgcagcca 60
ccccaggatt gatactctgt gctaaatgat tgctgactga gaagccttaa gatgctaaca 120
acccggtgcc ctgctgcaga gtgagcttcg attgtcttca tacatgcata gacattgata 180
atataccagt actattatgg caagcgcctt gctctgagtc ctaaacccta ctcagtgaca 240
cagctccgta cctactgcat ctctatcta ctgcttactg aatagactgg tgctgttt 298

<210> 6396
<211> 414
<212> DNA
<213> Glycine max

<400> 6396

agcttgaaag tgtgtaacca accattttct cattgtagaa caccggtaac gtgtatacta 60
tcattgtgat catctttttc tctgtcattg aagggtgccac ttgagctgtc aagtccttcc 120
acctctgggc gtattccttg aatgactcat gctctttttt acacatgttt tgtagttgcg 180
ttctatccgg agccgtatca taattgtact gatattgcct aacgaaggca accattaagt 240
ccttccaaga atagactcgg gaaagttcca agttagtgtc ataccctaatt ttcgtccggg 300
gattattact tgacgacatg caacctttga ttggccggtt caagatactt ggcccccttt 360
gttgcaaat atgtaagtct tgagaccac cggagtcaaa aagaaccagg gtta 414

<210> 6397
<211> 710
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6397

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gttttgttta ctttttatac cccctcttg acgtgcttaa gccattttac ttaagtcatt 120

tctcgcttaa cttaaaaata aaataaatTT ccaccgaatg tttgaattgt attatccatt 180
aacttcggtt aaaatcaatt ccgaccgttc ggtcatgccg taaccacgtt ggaaatcaaa 240
aagaggtaaa aaataatata ataatcaaaa aaatatcttt ttagtgaaat aaagcggaaa 300
atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattaat taataactaa 360
agtgaaacta aggctaaaat caactttgct agtcaagctc gtccacaaaa ataggctttt 420
gaagtttgct atttcaattc ctactaaga aaaatggatc atttttaagg tccaacgcct 480
tagaatgacc accacttaag taaaaaagaa tcacttgata agaaagaact acgtaggtat 540
gattttctca tcccanattg aggaatacgt aggagcaaag ggaaacaccc ttgtcgacca 600
caaaaaagaa aaaattaaaa gggtataagg attcatgaac atanaaggac ataaaaataa 660
agtcatgttt cacattcgat aaaagctgcc gtcctttgga cgggcgtgtg 710

<210> 6398
<211> 524
<212> DNA
<213> Glycine max

<400> 6398

agcttatgca gcaaatatat acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcaccctaa 120
cctcagatgg tccagccctc agcaacaaca acagcagcct gtccttcct tccaaaatgc 180
tgctggccca agcaaaccat acattcctcc accaatccaa caacagcaac aacccagaa 240
acagccaata gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattctg acaagctgcc 420
ttctcaagct gtccaaaatc ccaaaaatgt tagtgccatt tcattgaggt cgggaaagca 480
atgtcaaaga cctcaaccgg taacactgtc ctcatctgca aatg 524

<210> 6399
<211> 599
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 6399

tgtctcagtg tctatgcgag acagaaacca acatgttagc catcatcgcc aagtaccaag 60
aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gccaagtat 120
atgcggaata agaggctaga ggaaggtga tgcactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tgggtctctca gaccttgact agatatgatt tctttttttg aaataaaatg agttgggtccc 420
atgtttctac tccaaaaagc ttgtgcaaat caaatcactc ctacgtctca tctctagcat 480
gcattttctt tctttacca ctcctcacgt ttggttnttt agggaaaaca ccataactaa 540
acgcgccgca agggatccct atcgaccag atccaaatct agaacgatgg gtgatcaag 599

<210> 6400

<211> 467

<212> DNA

<213> Glycine max

<400> 6400

agcttttcaa actattttga tgtctgaggt tgtattcttg aatcagtaat gtccacacta 60
ttctcttttt tgtattttta ataacatgat ggtgataaaa tgttgaggat atatgctttc 120
ttttgtttta gtttttcttg ttggaatata tttttttatg ctttagttca aaatttata 180
ttttaaaata taattagaaa aaaatatata taaattttta agttgattat tataaaaata 240
tttttttatt tatatgacca tttatatttt taaaatataa ttggagaaaa aataaaaaaa 300
atgaaacata ataaactgaa agtattttaa tcaaacaag aattcaaat ttaagaaatt 360
taaattgggt tatccaacca acaaatttaa aaaatctaag cattttaatt caacaacccg 420
cggaagggt tgtttttcgg tgaattgaca gtgacttgta aaatata 467

<210> 6401

<211> 661

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6401

tgggtggaaa ctacaggtaa tcagatatga caatatgtga caaatTTaat aagttctatg 60
 aagatgcgga catagaacaa tagttgacag caccttattc tccttaacaa aatggcaccg 120
 tagaaaggaa gaataggact attatggaga tggctaggtg tttgcttcat gaaaaagaat 180
 tgccaaagag attttgggcg gaagccgcaa atattgcagt tttcatgctt aacagactgc 240
 caacaaaagc tttgcaaaag aagacaccat ttgaagcatg gtatggctat aaacctgagt 300
 tgetcaatct gaagatatTT ggttgTTTTgt gctTTTTctt acattcctcg ggttaagaag 360
 gacaaactat acaagaaagc agaagctgta acctttgtag gctatagctt aatttcaaag 420
 gcctacatga tctatttgcc acatcatgac aaagtaattg ttagcaagaa tatgagattc 480
 ttggagctgg atagttggaa ctgggaagat gacaagaaga ttgaatntca gaaggagaat 540
 gagaacatag acaaagaacc tgccagagga acaagatcac tttttgatat ctatcanagg 600
 tgtaatgttt ctctcatgga acctgcacga tatgaggagg ctacaccaat aaaaaatgga 660
 t 661

<210> 6402
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 6402

agctttcaga aaatgtcaat gtcgagcata tactatTTTT cttccatggt tcagttgtat 60
 gtagcttgta tcttcttcac agatagggca tgcattgatg tccttaacac tgtatccact 120
 caaattcttg tatgccgaaa agccattaat gggaaaaaat agcattgcat gcaacttgga 180
 tgcctcattt tgatacccat caaacatgac aatccctttg tcccataact ttgtcaagtc 240
 tttaatcaag ggactaagat aaacatcaat gtcttttcct aagtgtcttg ggcccaatat 300
 tatcataaac aatatcatgt attttcgctt catgcaca 338

<210> 6403
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6403

ttagcttgag ggggtgtgtt gagaatcaaa ataggatcaa tttcatatatt tgtctttatt 60
 atcataatta tacgaacaat atctcctata attaattgta atttatctat ataaaggagc 120
 atccacagtg gacacatgga ttcagtcact tatccctcta tattttttct cattttacta 180
 cctttattga aaatctacca aacctagatg gagtcttttg tcatgtatat tggccttaga 240
 tatcaatttt atttcttgac taaatcaaat gtgattcatg aacatagtta ttgattgtgt 300
 gctgtaccag cacgatagcc ccaccacggc ctccagctgt gcaacaaatt tcagtttgtg 360
 gagcacttta aaatcatgtg tgtcacattg caatctgcag cccaaattgc tgccattcgc 420
 aactgctat tacacctgga gggtaaagcc ccattttgcc ccattctctg acttttcatc 480
 gtctccaaga catatntgca tttctggcca ttcccagcat ttaccagtat ttctgggtcaa 540
 ccgagtctct tactacttca atcatg 566

<210> 6404
 <211> 512
 <212> DNA
 <213> Glycine max

<400> 6404
 agcttgttcg cacatcggtc gcgtgtatga tatccactcg acaaggtttg aagtagagga 60
 gacctttaat cctataatgc aacgtggcgg acaaaagtgg gcagttaact tgaatggcca 120
 ttattgtcaa tgcggaagggt attctgcgtt tcactatcca tgttcacaca ttattgcagc 180
 ttgtgggttac gtgagcatga actactacca atatatagat gttgtttaca ccaatgagca 240
 catcttaaaa gcatacttcg catagtgggtg gcctcttggg aatgaagcgg caattcctcc 300
 ttctgatgag gcatggacac taatccctga cccaactaca acttgtgcga aaggtcggcc 360
 aaaatcaaca aggataagga atgagatgga ttgggttcaa ccatctgacc accgacaaaa 420
 atgtaataaa tgtgggagca aaagcacaat ttgcgcccat gtcaaagca atctgaccgt 480
 gggaagtaat cattttaatt gatttatgta tg 512

<210> 6405
 <211> 592
 <212> DNA
 <213> Glycine max

<400> 6405

tgctacattg atgcatcttg gctacggaat cttcgatttg ggcacttaaa ttttgagggc 60
 ttaagtttgc tatcaaagga gaagatggta agaggactac cctatattaa tcaccctgat 120
 caactctgtt aaggatgttt acttggcaag aaatttagaa tgatttttcc aaaggagtca 180
 aactcaagag ctaagaagcc acccgagcta atacatgtta acgtctgtgg gccaatcaag 240
 cccaagctc actacgtaaa aataaatatt tcctcttttt cattgattat ttttcaagag 300
 aaacatgggt ctatttctta tagcaaaaat cataagtctt ttccaccttc aagaagttca 360
 aagctgcagt agataaagaa aattgggtgag agatcaaagc cataaggact gatcgaggag 420
 gagaattcac ttgcaaaaag ttcaagagtt tgtgaagaga atgaattaga cgtcccctga 480
 cagtctaaga cccccaatag atagtgtggc agaagataaa atagacgac cttgatatgg 540
 cttgaacatg ctcaaaagca gaactgccaa agaatttagg caaagctttg ca 592

<210> 6406
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 6406

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga 60
 aatctgtacc tgtcgcaagg gtttgtgggt tgtgctctc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
 tttaaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc 300
 ctcagcaaca acaacagcag cctgcttttt ccttccaaaa tgttgctggc ccaaacagac 360
 catacat 367

<210> 6407
 <211> 661
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6407

tctatagtta tgggaataatc gattatcaaa tgtggtaatt gattagtctg atacacgaag 60
 aactcctaaa gtttcctaac acaatataaa tgattactaa atgtggtaat caattatctg 120

gaaccacaac gacttccttc tgttggaact agcttatgta atcggttact aaaaatggta 180
atcaattaat ttgatgattc ttatcaaatt tcaagagaag tgagttttgt tgcttgttct 240
aacactttgt aattaattac caaacttggg aatcaattac actatgttga attcattgct 300
tctaagaaac tttgagatta atacatttat cttatcatgt tggattccta ctaaacctat 360
atgataaaac taagtctaaa acacttgta tgcctagtct aaaaacattt gatagaaatg 420
tcacatctta aaaaacttgt ttggcggtgt aaacttatta aaaccaaag atcctaagac 480
taatcttcaa gtcttcaatc actttgattc aacacgcaag accacttgaa taagaaaatg 540
tgggtgtcct tctaaattaa aagggaaggc ttgtgagaac catanggtgg agacttactg 600
tagaatgtgg gttatataac catacagcga tgtgaacatt gcttggtcat tcatatgtta 660
g 661

<210> 6408
<211> 479
<212> DNA
<213> Glycine max

<400> 6408
agcttcattt gaacagtcag ctctttaagg aaaaaaaaaa atcctctttt ctagcttatg 60
tataaataaa atactaattg gacaacgact aacgtatttt gttgaactag attttgaagg 120
gtatgatgca cgagaaaaga aatagtttgt ttgtgtatgt tttgagcgtg gacatatgta 180
aacttggtaa tgtaaaaaaa aagtgtcaaa ttgagtttat attgaaatta aaaaaaatcc 240
ctagaaaagt aatataataa aagaaagata acataaaaaa taataaaaaac attatcttac 300
aaagctttat tgttattaaa attagaaaac tttctcataa catattttat cgtatcatcc 360
gctacttagg tcgaattctc aaaaaaatat gattctaagt aaatgttctt gcattactgt 420
gaactgagta aatctatctg aagagtacat gacatggatg caccctacaa cttagatca 479

<210> 6409
<211> 611
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6409

ttccagcatt aattgtgata atatcaaggg tgtacttgag atttctgaac catttcttgt 60
 ccatttcatt cttaactcac tttctcctca atatgggcct tttaaatttt tttacaatat 120
 acataaagac aaatgggtcta ttaacgaatt actaaccatg cgtattcaag agaaagagag 180
 attgaagcat ggggcacctg aaagtgtctca tatggtgact cataataaag gaaatgggag 240
 aagagacaat ggtgttcttg gagtccacaa gactgtccaa atgaagcgga atgaaacaaa 300
 gattgattgc tttttctgta aatagggtgg acataagaaa aatgattgtc tcaaatacaa 360
 gaaatgactc gaaaagaaag gtaattttac ctttacttgt tttcactact acaaaaaaga 420
 ctttntgcat cggttatttg acacttttca tgacgggttt caaccgtctt cgaaatcgtc 480
 atcatgagaa ttcaacactt tacatgatga tttttaaacc atcttataaa ctcgatctta 540
 gaaactcgat tttatatcgg tttacataaa aatcgtctta gaatgtcttt ttttgttttt 600
 tttataaaaa t 611

<210> 6410
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 6410

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 cattgtcatc attttttctg cattgaagtg ccacttgagc tgccagggtc tccacctttg 120
 ggcgtattct ttgaaagatc cgtgccccct tttttgcaca tgttttgtag ttgcgtccta 180
 tctgaagcca ttataccaac actgcctaac gaaggcaacc attaggtcct cccaggaatg 240
 gactcgggaa ggttccaagt tagtgtacca agtaacaact accccagtaa gactttcttg 300
 gaaggaatgt atcaacaatt cctcatcttt tacgtatgcc cccatcttcc gacaatacat 360
 ctttagatgg ttcttggggc aagtagtccc cttgtacttg tcaaagtcca acaccttgaa 420
 cttgggaggg gtgatgatat tgg 443

<210> 6411
 <211> 654
 <212> DNA
 <213> Glycine max

<400> 6411

tttgtgtggg ataccagtg tgagtatagt ttccaaaccc ttaaggaaaa gttgacgacc 60
 actcccatgc tagttttgcc taacctgaga gaagcctttg aggtgtattg tgatgcatca 120
 aagatgggtt taggaggagt gttgatgcaa aatggccaag tagtgacctg tgcttctaga 180
 caacttaaga ctcatgagat gaattatcct accaatgatc tagaattggc tgctgttgga 240
 tttcccctgt ggttactttt tgttccactt ttttcttcat acaaataat tcaagggaaa 300
 tctggtttgt cgaaaagtgc accagatcgt caagtattta aaaattaaaa cggatgaatt 360
 cgagtatcga actcagggaa actagtctaa gatcgggtta aattcagaaa taatgcattg 420
 ttgaaagaaa cattgataat tgatggttta aaatagaatt aaactgggtc taggataaaa 480
 acagtaaaaa tgcaagtaag taaaattgac agcagtaggt agaagtgttg ggtctttcaa 540
 acagacaagc tgatgcatat agggatgttt ctctaatacga tcatgctttt atgttctatg 600
 atgtagcata aattactaaa cctcgatccc taattgactg aatcaatcca gctt 654

<210> 6412
 <211> 503
 <212> DNA
 <213> Glycine max

<400> 6412

agcttatggg agattagagt gaagttcatc ctgatcccgga gaggtatagg agacttgtaa 60
 gaaagctcat ttatttcacc attacaagac ctgatatctc .ttttgttggt ggagtagtta 120
 gtcaattcat gcagaattct catgttgatc attggaatgt tgtcatgcat attcttagat 180
 atattaaaag agtcctgta caaggattgt tgtatgaaga caagggtaat acacaactat 240
 caggatattg tgatgcagat tgagctgggt gtcctatgga taggagatct acatcagggt 300
 attgtgtctt cattggaggg aatattattt cttggaagag caagaagcaa gttgttggtg 360
 cttgggtccag tgcagaagtt gaatatcgat ccatggcaat gggttaaagt gagctcatgt 420
 ggattaaaca cattctccaa gaattgaaat tctgtgaaag tgtgcaaatg aagttattct 480
 gtgataatca agctgctctt tac 503

<210> 6413
 <211> 688
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6413

tatcaaaatg caccttaagt gcatgtttgg aaaagattaa tttcatgaaa tattcacttc 60
 ttttttgaaa gttctcttgg aaagctaaca aaaaaaaaaa gtgattatct ctagaaaata 120
 agttgaatca aacatgaact aaatctttta agagcctaaa agtgattatt ggctgcaaaa 180
 aagacttcaa ctaaccaaact ccatacaaaa caagcactaa ccaaagttct ctcatgtaca 240
 acattgacaa aaatgtgttc tacttctaata gcgccttttc caatttccaa attcagtttc 300
 taaacctttg aagagctcga gtgattactg accgtaaaaa tcatattctc agggccaaaa 360
 tgcagtgagt tatggcgctt tattacttgc aacaaaaaaaaa tgcgcaatac ctgttatcaa 420
 aaggagata atgctttgaa aactttttaa tagatatcat tctcttcaaa ttaaccaata 480
 aatgtgccac aactaaaatg aacaattacc caatcaaata cagatgaaga ctgactcatt 540
 caaatgcatt gtataagttt acttgcatga cangagcatt ttcataagca actaaattta 600
 aattttacct atataaagct ggtagggttg ctcggtctaa taagctatga aaattatcca 660
 tttaatgcac attaatccat aggaatca 688

<210> 6414
 <211> 469
 <212> DNA
 <213> Glycine max

<400> 6414
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 ttgttagcct tttttttcac attttttttt tgcttactcc cttttacttt ctttttctct 120
 tttttgtttt ctattttatc ttgtaaaaca caagatgctc tagttttaat ttaactaatt 180
 tttaaactag tcaaaaataac ttataaccta ctgctcttaa aatgatttgc aaaatacact 240
 gtttcacttt tgattaagaa ttacaaaatt cacacacaaa aagatgacaa tggaacaaat 300
 tttatactat ctctatattg taattaaaat taatattata aagatttgat agttatatta 360
 agttgttcat aaattatttt tttttatcaa tcattcaatt caattttgaa taaaactata 420
 ataatggttt aaatcttgaa aaaataatat aaaattttta gaattaaaa 469

<210> 6415
 <211> 696

<212> DNA
<213> Glycine max

<400> 6415

tcacagcaaa tgatagaatg tctatagttt tatcatttga caatttattg ttattatatg 60
tcttatcctt catatatata gactcttttt ttcatcttt ttcaactgtg aatttttaca 120
taattcataa attttatttg ataccttgca tagcattgca tttagcaaata acaatttaac 180
atgcttggtt tataagtatt gacacaaaaa aggcttatga aaataccttg tattgcatgt 240
tgctagggct tattaataat atcaataat ttacatgtg tctgtgaaat cagacttatt 300
aatgatgca taaattatgt aactatcatg tctctcgttg atgttgctaa aaaaattggt 360
taggaagtat atggattaaa agtgcattct tcaaaaagtt taaagatcga gaacataatt 420
aaccattaa attattatca ataaaataac cttaaattta aaatacaaac ataggtagat 480
gtaatttata ttatcaatta ttgataaaaa aaaatataat aatgtttatg tgaacaaaat 540
atttttttga ccaaaaaata aacgcattgt ttttatattc aaaatcattt tacagtttaa 600
tatttaattg gtataaaaca gtataattgt agcaagctga aaatagttta tgaacatata 660
tataagtgt atcataagtc tggcaaacat gtttac 696

<210> 6416
<211> 598
<212> DNA
<213> Glycine max

<400> 6416

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acgcctggaa ggagggatca cccctgaccg ataagggtcca aacctgcgca ataacaacag 120
tagccagcat tattctttga aaaagaatgc tgggcgataa aggccctaata atacggcata 180
agaaaaaaga aatgcaagac atgccgtata ttagaataag tgggggacta caataataa 240
tttgttcgaa gaggatggca tgtataaatc gcgttgtaaa accatgatat tctactaga 300
agaacaaaat cctgcgatct tgtagcataa taaattacca gtggtgaata gggttgcccc 360
ataaatcgaa ccacattggc caaactattg acaagaagt gtgttaaaat ccgttcatga 420
aatggcataa agataataga tactgtcctc tagagacgag cgaggagaga atgggagagt 480
gatactcggg atagcctctc ccatgtttgc gaagtatatg gggcaacatt gtcttttact 540

tcttcaagga ggtcgggtcc aaaggtagtc taaacgctct ctcgggagag aggaaacg 598

<210> 6417
<211> 958
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6417

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gcctgnanna ntcncctcn ccncctcccg gccccggcna ttgatgacct cgtaggtacg 120
ngccacgata tataaaatac tgctgcatgc ctgcagggtg actctatatg aggcgcgggt 180
actgatttta atatccctag gagcgctgta ggtaactcac tggccagtga tatcacctc 240
tgaactggga aaacatttgc atacccacc aaggtcgtct ggcggaacag ccaccgtgcc 300
cagttggtag aaagaggaat agggccacgc gcgacaggcg tatcgacat atggagactc 360
agaatggggg atggggccta acacagtatg gtgcccttgc acacctgagc agtggttaac 420
aactgggag gggaactgct agtagaagct gtttagatgc acacagtggg acataatgac 480
gaaggattgc cacaacaacc cgtgacgcag aacgactgag agagcgagag tggccattna 540
ctngnntaaa acacatacga tagaagacgt cccggcttgg aataactgca gaggggtgctt 600
gaagggttat gaacagccga cagagactgg catatgatat acgcgtccat tttcaattgt 660
tgattattca cagcatcttc acatcatgga acaaagagag cggggatctt tcatatggat 720
acggaaagca atggaggaac catggggggg actagatact gggttaaatac gagtatgagt 780
acccaaacag cttattggcc ctatgttggg cctgttttat atgaggaaac gtcgaacct 840
tggaataca acctacgtcg aactatttgc ctacaacgtt ggggtgagaga acgaaacact 900
tctgtctcta attattcaga tgcaacggta gcggtttcct cacgcaaccc tcgaaaag 958

<210> 6418
<211> 404
<212> DNA
<213> Glycine max

<400> 6418

agcttgcttc tacagtatgg gaaaaaata aggagaataa aatgatgctt cttccattct 60

tacattagta aaaaatggac aatcatcagc caaaatgata cttgatctcc ttcccaaaac 120
aataatTTTT tatgcaacat agaaggcaca cattggctag aatgaatcca atcccttcat 180
agcaaaatta aatagtttgg tttagcatcc actataaaaa aatggtgaat acatggattt 240
tggccaatc gtgattgtgg ctacaaaac tccaatggt gtagtagctc ctacaatgaa 300
attggttatt ttgatattca tggggatcaa atcatcctac cttttacca tttgcctcag 360
cgtggttaga ggcattgatgt tataaataat accaccatca aaaa 404

<210> 6419
<211> 651
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6419

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cacaagtact aaaattagta aagttaacat tcctaagaat ttcttccttt actagtctct 120
taattcttca agagaaatgt gccctaaatg cttatgtcga aacgtagaca aattttcatc 180
cataatactt cgcttagtac caatgggtgt atgtaaggct acgagacttg tttcaaaaat 240
aggatctatt gaaagcttaa ataaatttaa ctaaaaaacc acaaccaaca actttattgt 300
ctttaatcaa tttaaaagaa acatcgtaga aaagaaaaga gaaactagta tatgtaagcc 360
tagaaacaga aaccaagttt ctataaaagg acaaaacata aaaaagtgtt ttctaataac 420
atacaaaaac cagaattcat gagaagttta aaagttccaa tagcctccat gtatgaactc 480
atatgatttc caccatagat gctttgttca cttccattg gatttcgcaa gtttagaaat 540
tcttgtagat tattagcaat gtgaatggta gaacttgaat caatccatca agtattggta 600
ggaaactcag tanaatctta ttcaagcaag gcaaaatacc tttcttttca a 651

<210> 6420
<211> 455
<212> DNA
<213> Glycine max

<400> 6420

agctttagg gttcacccca aatgccgtag tcatatgcta aacttgatcc catatctact 60
tgataattca atggttagcca taaccctagc caaggttcat caacctccat ttctccgaga 120

atacgacttc aacgcaacgt gtgcttgtca cagaaaagcc ccggggcgct tcattgagca 180
 ttgtagggct ctgaagcgta aggtgcaagg tctaattgat acgggctggc tgaaatttga 240
 agagaatcgc ttgatgaatc ctaacattaa caagcgacac catacatggg gcaattctgg 300
 aagctgttgt tatgactcat caagatcttt aagtttatgc cataaaccac agttacaatg 360
 ttaaatagata tagataaaaa ggacattctt tcacgaacac atcttttggg tattcaactt 420
 ccaacggcat gtgagtgtaa acccttggcc tgttt 455

<210> 6421
 <211> 604
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6421

tctcccctat tttgctatca atggggggag aagtgaatat gataagggtt caaccctta 60
 ggcacttctc tctctctctc gaatttgctg aggaaaatta tttccgtgaa gaaaattcaa 120
 gccgaggcgc ttgcgtaacg tttccgtgag taattacgcg aagagtctcg accgttcttc 180
 aaaattcatc gatcgttctt cattttcttc aatcttcaac gggtgagtac ttcaaaccaa 240
 gcttttacat tcattctatg taccctgggt ggtgcaaatt ttgcttcatg tgtgtatatt 300
 cttgttttca ttcacttttt ataccctt ttgacgtgct taagccattt gtttaagtca 360
 tttctcgctt aatctaaaaa taaaatatac tttaccgat cgtttgaatt gtgtcattcg 420
 atacttttgg ttaatatgaa ttccgaccgt tcggacgtgc cgtaaccacg ttggaaatan 480
 aaacagaggc aaaataataa tataatcata aaaaatgtct tttactggag tataagcgca 540
 taaaatcatc agacgttntc tctgtgggat ttctgattct taattgaatc gactaataac 600
 taaa 604

<210> 6422
 <211> 605
 <212> DNA
 <213> Glycine max

<400> 6422

agcttccttt acaataaaga taagagaaag atgaaggatt gaagaaacac aagtggtagg 60

gatgtctcct ctgcctctaa gacctcacia taactcacia actcatctca agctctcagg 120
acgacttcct cttcaagctc tggctctctgc agatcttcac acaacaaaat ctctcaaact 180
ctctggaact tggacctttc tctctctaga aaacctcac atacagaagc tccttgagaa 240
aaatagccaa actcccttcc aaaaatatga tttcaagctt aaatagggtgg ttttgtttgt 300
gctcatgctc ttagcgcaat tatgaacgc ttagtacgca ttagtaaatt tcggcttagc 360
gcgagatttt ctcaacgaat ggactgaagc ggtgcgctta gtgggatggc ccttcgctca 420
gcgaacatgc acaactcatc cttcttccaa attcttctc gcgcttaacc gaagagtgtt 480
gtgctcaacg attggcttgc taaaccata gaatggctta atgagaagat gaaaattatc 540
actttccaaa ctacacctaa ttaacctgaa attgagagaa aatgattatt aaacatacaa 600
aatgg 605

<210> 6423
<211> 591
<212> DNA
<213> Glycine max

<400> 6423

tgagatgagg aagtgttgaa gggtagaact tcctgctttt attgttgacc acagagtgg 60
acctggagat atgtcgctggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
agcaaggagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttatggc 300
ctctggtaat caattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
aggcttatat ggtctctggt aatccattac ctagggatgt aatcgattac caggcttgaa 420
aacgagggtca ggaagctaag ggagcttctg gtaatcgatt accaaggggt gtaatcgatt 480
accaggctta aaaagggaaac agggagatgg tggaagctc tcgtaatcaa ttaccagcct 540
gtgtaatcga ttacacagag gaatgggtca ctggtaatcg attaccaggc a 591

<210> 6424
<211> 640
<212> DNA
<213> Glycine max

<400> 6424

agcttaacaa ttaccttatt aaaaatcatg atttatttaa aatgacataa aaaataataa 60
aattatcatc tagttaagaa aaataacaag aaaaatgaat aaatatatta agaataaaaag 120
tgaaagaaaa tataaaaaat taaaaattat tatttaaaaa aactgttatt taatgtttta 180
aaaaacaata gaagttactt aaaaaaacat atgtttaccg aactgttaaa caaatTTTTc 240
aatatTTtaa aaaactaaaa attaatTaa atgtgttatt aaacataacc taataaact 300
cattaataag aactaaatt taggcttttt tttagcttaa tggggtaatt ttttttcaaa 360
attacaaaaa ttaatacctt ttgagttatt tatgaaaaga attaaattgt cattaaaaaac 420
acgattttca atacaaagat atgggtgcgtg caaacaaaaa ttttcttttt caaaaacaat 480
gaacaattct gggttggttt aaaataatgg gattaagtga aatcggacgt ccttgaggat 540
tcaacttaat ttttaataata aactaaggcc gttaaacagg gaatttggtt ttttttttaa 600
aacaacgaat tatagggggg tttttgtag ctaaaattta 640

<210> 6425

<211> 518

<212> DNA

<213> Glycine max

<400> 6425

tggaccgttg gacgtgcatt gcatgaaaat aattagtata aaaaactaac tgatcgctat 60
aaacatagtt tggaaaaaca aaaaggaagc atcattacgg catgtgcaat gcattatatt 120
aaaaatagga caaaaatata tttttgatta ctatatTTTc atcaaatctt atttttattc 180
tttaaaacttt tatattctct aatttgatcc ctaattcttt ttttaaacaa tgtttttagc 240
tattttttcac agattttcat taacaatggt aacttgagtt gtgtccagcg tgataaatat 300
tgtgcttttt taaatttttt tataaatatg taaaaataa attatcattt tttaaataaa 360
attatcattt ttttttcaaa tatattaaaa cctaactttt aacgacttca tctctatttt 420
gatttttacc ttcatatta ttatttctta ttgttcatt gaaccgaggt ttccaataag 480
gatgagaacc cgcctttgca atcatgcaca tgaaaaaa 518

<210> 6426

<211> 282

<212> DNA

<213> Glycine max

<400> 6426

agcttgactt tggtttagac atgattgata catgatttgg gacttgtagg atttgatttg 60
ggcaagattg gatgagggga aatgtggttt tcgaaatctg ctctttgtgc aaatttttgc 120
tgtgaaattg tgcaccagaa ttttgacaaa gtgcagaaaa atgctatgca tttgctggtt 180
gtggaaagag cagtgcagaa tgagttctgg atgtttgcta gtagatccca acggtcaaaa 240
ttagaggctta tgtactagac acttcagta aaattttgga at 282

<210> 6427

<211> 578

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6427

tgagatgagg aagcgtaaaa gggtgaaact tcctgctttt attcgttgac cacagagtgg 60
tacctggaga tatgtcgcgg gggtcgggag accttgggga cgtcaggtgg ggtgctattg 120
cccaaaacca agcttgacca atcccgacc aaccgggga tagtcattca gtgagaactt 180
gtgatgtacc taaacaggcg agctcttggc agtcaacaga taaaaggaac aaagaccaca 240
aagcaaggag gcttgtgtgg tggctggcca gctgcgaact ttgattgata tgtgagatat 300
ggcctctggg aatcgattac caaggggtgg taatcgatta caaggcttaa aaatgaagac 360
agaaggctaa gatggtctct ggtaatcgat taccaagggg tgtaatcgat taccaggctt 420
gaaaacgagg tcaggaagct aggagagctt ctagtaatcg attaccaagg ggtgtaatcg 480
attaccaggc ttcaaaaagg gaactgtaga ctatggaggc ctctggtaat caattaccan 540
tctgtgtaat cgattacaca gaggaatggg cactggta 578

<210> 6428

<211> 445

<212> DNA

<213> Glycine max

<400> 6428

agcttctttt ggaccttgaa caagcaatca actcctcttt cagaaccatg ctatgtgctc 60
gggaactggc ctttcttccc cttecgcaact tgagttcatt attgctaccc catagagctc 120

cgcgaaatth gttccggcca tagtcttcct tgcgagccct cttggtctct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgt aaccggcaca ctccttccga acgtgtgtag 240
cagccaactt ggactttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaacttgg 360
cgagccaatc taaacctcgt atgcgaactt tcaaccattc gtggtaccca ccaatgatgc 420
ccttacgaac ccctctaagc tcttg 445

<210> 6429
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6429

tggagaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 60
gaaattgaag gaagaaaaag ggagagaagt ttaagtttga gttgtgtctc acaagactct 120
cattcatcaa agttacaata agtggttacac atgcttctat ttatagacta ggtagctagc 180
ttccttgaga agctttcttc agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctaa agcttagcta cacacaccta tctaaaaact aagctcacct ccttgagaag 300
cttccttgag aagctagagc ttagctacac acacccatct aaaaactaag ctcacctnct 360
tgacaaaatt catcgaaata ccaaaaaaaaa gtccctacta caaagactac tcaaatgcc 420
ctgaaataca aggctaaaac cctatactac tagaatggtc anatacaacg cccaaaagaa 480
ggaaaaccta ttctaattatt acaaagagag tggaccaacc ttgatcatgg gctcaaaaat 540
tgccctaagg tcatgagacc ct 562

<210> 6430
<211> 224
<212> DNA
<213> Glycine max

<400> 6430

agcttggttc cacatcggtc gcggttatga tatccactct acaagggttg aaatacaaga 60
gaccttcaat cctataaagc aacggggcgg acaaaaaag gcacataact tgaatggcaa 120

taattgtcaa tgcggaaagt attctgcgct ttactatccc tgttcacaca ttatttcaac 180
 ttgtgggtac gcgagcctga accactatat ataaatggtg gtta 224

<210> 6431
 <211> 717
 <212> DNA
 <213> Glycine max

<400> 6431

tcatggtgaa tcaaaggtga ttcaaaggtg ttttgatgat aacaatgatg ataacaaaag 60
 atgacgacaa aggtgatgac aaaaagctca aagatcaatc aagaacaatt caagagttca 120
 agataagaat caagaagaat tcaagactca agaagaaagt ctagagacaa gaatcaagat 180
 tcaaggttca aagatctcaa gaatcaagat caagaatcaa gaatgaagag aagactcaat 240
 caagataagt attaaaaagt ttttcaaac tttgaatagc acatgagttt ttgacaaaac 300
 cttttaccaa agagttttta ctctctcgta atcgattacc atattgttat aatcgattac 360
 cagaagcaaa atgagtttga gaaagttttg aactgaattt caacgttcaa tttattttca 420
 aaaggcttaa tcgattacaa tgttttggaa tcgataccag tgccttgacg ttgaatctat 480
 tcaaggtgaa agcacacctt tacttaaagc ttgtgaatcg atacactaat tgggaatcga 540
 taccaggact gttctgataa tcaaagatgt actctcaaaa aggttttgac ttttcaattg 600
 gtttaagttt tctaaaatta tactctctaa tggcctcttg ccagactgag agcttataag 660
 caggcttgat tgctttcaga attactttcc atcatccttt cagcctgaat tttttga 717

<210> 6432
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 6432

agcttgacga aatctagatg gcgatgcctc agcaacagct tgtacttggt tctcgggcac 60
 agcaaagcat acagaatgct cactactagc ctacataaat actgaaaatg attaatgcc 120
 tttcttatat atcagcgtgg acaactagaa aaattgaaaa aagttataaa tgcacctgag 180
 atatcatgat aacattagct ccaacatctt ttactgcacc aaaaatagca ctggccgtac 240
 ctggaacacc agacattcca gttctgcaaa aaagcatcaa agaaaaattt attggaatct 300

acaacttgga caattaatat tggttaaaga aaaccttaaa ttaaatagaa atccctcggc 360
 aggaaaaaat gccaaactatt catcatgtaa cacaacttgc atttatgact cacccttga 420
 cgtttacaaa tgccaaagtt gcctatggat gcaaaatctt tgacaaaatt 470

<210> 6433
 <211> 604
 <212> DNA
 <213> Glycine max

<400> 6433

tgtaatgtca gaaaaggcta acacagaaaa tatgaagcgc ggatgattac tagaagcatt 60
 tcacactata ttagagaata atgccacaat ttaacttctt gtcactcttt cttttgattt 120
 tccctttaac aatttctatg agcagatgat ttttatgtga aattgcgaat agctaatact 180
 ctaaagttag tcttcattaa tatgagatca tgatccttga aatccatggc cctattatgg 240
 tcttcacata cttcaatggt gtcctgattc atgagtaaag gaaaaaaaaa attgaaatat 300
 tcatttaagt gagtgtacat gtatattaag agctgtaaaa aaggataagg tcaatactag 360
 aatttatctt ctggctcagt cagctgtgaa agattcaaga gtgaaataga aacttagaag 420
 ataatcgaga ttactacggc gtaacataat ttggtactcc ttttcattat actatgatat 480
 agctatgtat ttctatagcg agatcatata ctaactgaat ctgagctgac ataacatagg 540
 aattgacaga tttcagatat ctaatatagc actagaaaag tctttactct aacattgtcc 600
 cctc 604

<210> 6434
 <211> 540
 <212> DNA
 <213> Glycine max

<400> 6434

agcttgaagt gaaaaatggt aactggagca acctaatttt tacatcaaag cctaattcagc 60
 atcaacacta ctattttaat ctttttctca taaaggattc aatcctactg atgttggtgt 120
 gcagcagagt aatgcaaggt ctatttgatg ccagtaagta atccttttat ttccaaattc 180
 agagcaattc caacaaaagg ttccatgacc aaccctaatt attaaagaac tcagttcact 240
 gatatgtatg aataaatgat gcaagaaagc atgcaaacta tagaacaaca aagaaattgt 300

ttcttctgca gattctagat aatgccaaag cctaaagaaa caagctaaag tattatgggt 360
 cacttgaaat attaaggtgg aagaaatgta acaagtaata tttgtttttg atgcatcaga 420
 acaaatgcaa caagtaatat gatgctatta tacatcacgg atatagctta aaataaaaaag 480
 ccaaaaggag ggaaaggaaa actcctttat tggacttagc ccataaaaaa aaaaagtaaa 540

<210> 6435
 <211> 676
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6435

tgtaatttcc ttctttttcg atattttgag gtgacaaaaa gatttgtatc aatgggtgggt 60
 acataaaatt cagaagaaaa atattattgt ttaagtgtgg ttatgtagtg gctaagtgga 120
 gacatgatct gaataatcct tctactagtt cataagtgga ttgtctctgg agtaaaatag 180
 ggacaacgga atgcacaaag atgggggttg gtggctagaa accataatgg aaataggaga 240
 ggcttttaggt ttccaatgac cccttcaaag cagtttttga agaccaatgg cgtagatgaa 300
 gtcctttatc agttggacat tcatatttct aaagatgcag ttgaataata ctagtattct 360
 attgtaaaaa taaataaaaa aatgcactaa atggcagaag atatgctatc aatttcggcg 420
 ctaaccatga ttcttatcat aaggaaattg ttgacggtgg aaactaaaac tcgagctagt 480
 gtgggaaaat ctttgatatt gtttttgaaa atttgaaatc atatataagt caggatgcat 540
 tgaaataatg ttcattntcc attatcattn tcaatcaaat taagttctaa cgaacacata 600
 ttcatgcctc accggcggtg actacctact cccatatata tatatatata tatatatata 660
 tatatatata ttatga 676

<210> 6436
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 6436

agcttcttat taaataatTT aaaaaaaaaa aaaaaaaaaac gtggttgac tatagccagc 60
 atatgttgca caatcacata gttgatctca cttcaagtct atagttcagc tttcatagac 120
 ctgaattggc gattaaagct gctcaaaatc atacaataaa gaaccaaacc ttagagggcc 180

agacacaaaa aattcataaa ctagctttgt acaattttga tatcatagaa aaagaagaga 240
 taaaagtcta gttttgatta taggatatga tatgttccaa cctagcatta atctaaatat 300
 cagtaagcat gcatttttcc caagctagag gttgagatcg agtcggcttc aattgcatct 360
 gaattacgcg agtaaataagg catttttggtc cttgactttt gacccttttt gcaaattatt 420
 ccctatcttt ttggaaaggt aaaaataatc cctatctttc cat 463

<210> 6437
 <211> 776
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6437

tcctcggggc catttcctgc gaaggcaaac atttggaag ttagttttac cagtgggaca 60
 ctactcttaa aacaaaaatg gcatacaacc tcctcccata aatacaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc acttgcgcaa gacattctat 180
 taactaagaa aaatgcaccc atatacaatc aaggcagctt cgttacctag attatttaca 240
 tgcacttcca aggtgtatgt gttacttaca tcacacacat ctccttggct gaatttacct 300
 acatgcatac tcaaagcatt ttgggggtacc aaaaattgca catgtgctca tcttgggtatt 360
 tctaatacct atacatacac aaactctatg atgaatcttg actacctaca caataagggtg 420
 ctacatttca tgcccttttc aagtttttgc tacctaaagc cgcattgcaaa ttcaagtata 480
 ttntcctttg ctgactaaaa tgggtattcaa attaaaagggt atatattttt ttttaatgta 540
 ttttctttac ataacatgca acatatttat atatnatttt tgtgagacan tttgactacc 600
 aaaaattata tgtacatata tccaagtatt ttctatcata cccaaagtga aaatgccaaag 660
 gtattttgct acctattcta aacctacaca ttcattgacga gcaaaattct aaacatctag 720
 gcgagggaaa atatatagtg tggcccatat tgatgggtggc aaaaaaaaaa aaaaaa 776

<210> 6438
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 6438

agcttgtgca aatcaaata ctccacatc ttatctctag catgcattct tcttttcttt 60
 acccactcct cacgtttggg tttttaggga aaaacacat aactaaacgc gccacaaggc 120
 atccctatcg caccagatcc aaatctagaa cgatgggtga tcaagaggag acacaagaac 180
 agatgaaagc cgacatgtcg gctttgaaag aacagatgac ttccatgatg gaggccatgt 240
 taggaatgag gcagctcatg gagaaaaatg tggccaccgc tgccgctgtc agttcggctg 300
 ccgaagcaga cccaactctc ttggcaactg cgcacatcc tccctcaaac atagtaggac 360
 ggggaaggga cacactgggg cacgatggca accctcacct gggatacaac ca 412

<210> 6439
 <211> 673
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6439

tattcaagtc atggttgtca aaatcatgat ctgtcttata aaatcatttg attttaacat 60
 caagcacccc ttgacaatct gaatcttgag ttgaatcgct ggagagtagg atcacagagg 120
 gattgctttt gtccatgttt aatcatggga tcatttatcc tgggtgaggca gaagacggac 180
 aaaatcacia gggtgggggc atatgatcca gtttgggcaa aaccctttt tctccttcaa 240
 acaatttcct ttccatatgt gactatgtga cttctctaac ctaatctcca tcaattgttt 300
 tttgaattgt gtgccattgg acctctttca caactgttga agctttacct tgtgccacta 360
 ttgctactgc gggttgtggg tagttntggc actgtcaatt gcacctcctt tacctaacat 420
 ctttctttgt gggctctctt tactcagtca ctctcatctc attctctgga ttatctttct 480
 tttcttttct atggctgtcc tcacagtcta tagaattcct tttgagtcac agatgcttct 540
 ctcacagagg gtgaaccact gaatagaata ttntaattag cttgtatgta atgtcttatg 600
 actcgtaaat atgttattag aattcttatg aatttttaac cagggttaa ttgcttctct 660
 catcatgaca tat 673

<210> 6440
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 6440

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttcttct aattaaaaat 120
ctatcttact ttttacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180
tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcggccaca cccttgtgcc tacgttcagt 300
ccccaagcaa cccgcttgag agttccacta acttgtaa at tccttttaca agttctaaac 360
acacaaagac aacccttcct ttgggtttag agattcttta caacaagaaa ctcacagtct 420
cttaatccct tagagaatg 439

<210> 6441
<211> 694
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6441

tgtctcagca tttatgagag acggagacca acatgctagc tatcatcgcc aagtaccaag 60
aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggaccg gtttgcctt accttgaacg ggagtcaaga acttccctc ttgttagcca 240
aggccaaggc gatggcagac acctactcca ccccgatga gattcacggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tgggtctctca gaccttgact ggatacgact tctttttttt gaaataaaat gagttgggtcc 420
catgtttcta ctccaaaaag cttgtgcaaa tcaaatcact cctacatttc atctctagca 480
tgcattttct ttctttaccc actcctcacg tttgggtntt tagggaaaaa caccataact 540
aaacgcgccg caagggatcc ctatcgacc agatccaaat ctagaacgat gggatgatcaa 600
gaggagacgc angaacagat gaaagccaca tgcgggtctt gaaagaacaa atggcctcca 660
tgatggaggc catgttaagt atgaagcagc tcat 694

<210> 6442
<211> 485
<212> DNA

<213> Glycine max

<400> 6442

agctttaaac tctatTTTTa attctatTTTT tctctctaaa tgtatattac aatgcatata 60
tttgtaaata attaatgagc tcaaataTTTT aaaatgtatt ttttttacat aaatcttata 120
aaataagtgt tagaaacaca ttttttaaca ttatccttaa cacatttaat ggattgaaat 180
tgtttaaaaa ttacaaaatc atttcatgga gtcattaaat aagatgaatc acacaatttt 240
tttataatTT taagaaatTT caatcaagag gatgtgtatt taaaagaatg agtgaaaata 300
tgttactaat atttctcatc ttgtaatat ttgagtctga ttctttctaa ttggataggg 360
aaatacacat tatttttTgtg ggagccacaa taatatTTTc ttcgtcccgt tataaataat 420
gtttaagggt tttttaaacg gattaaaaaa acaagtatTT taaagtgttt tgtgtatttc 480
aatg 485

<210> 6443

<211> 544

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6443

tgcattcata gctgcaaaga agaagaaatt aataaactgg catgtttact accaaaacaa 60
atagcaaaga aatccttcca agaggccaac tattcgggta gctntctttt catgatatac 120
tatcaaatta ctttttctaa ttttagaaga ggcccccttt tagcattttc tttttcacia 180
gaatagccat aattggggat atcagctaatt aaccttttat gtttcacgat ttgatttatt 240
atctatagac aggtttcctg gggtttcttg ggaataaagt tgatgctatt gatcattata 300
ctgcaataat tgataatttg agcaaacaag taagtactga tcaaatcata caatggatat 360
gtcaatgtca cccttatccc tttgtgtaat agnaactatt tttttacaaa ttgtgtcatc 420
cagtcattct gccaaactct atcaactttta taatatTTTg aagtaatcaa attatggtaa 480
tcggatatca ttgttatatt cagaggagat aatgggctat gcttttatag ttcagtgagg 540
ggac 544

<210> 6444

<211> 416

<212> DNA
<213> Glycine max

<400> 6444

agcttgctta tgtagagaga tagagtgtgg aaattaggag tgcgagtgac aatgttagct 60
tgcagacag ggaaatagtg aaggtgaaac taattattgt aaccgggtga gttgtgtgaa 120
ccttaactgt gaaagaacga ctagcatcaa gtactgatct ttgcatgaat ctttgattac 180
tgaatgtatg catgatgtgg aaatgatgaa ggccatgttg aatttatttc agccacttag 240
ccaaacaact accctatatt aatgaatgat tgaatccctt gcaccccttt tgagcctaaa 300
tgttaatgaa tgactcattg aaaggagcta aatgcaaatg ctatctttgt acaccctatc 360
ttaagatata aaagatcatt cttatggatt aagacaaatt tgttcctaat atgggg 416

<210> 6445
<211> 373
<212> DNA
<213> Glycine max

<400> 6445

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aaattcagat attgataaaa gaatatttac ccataacctc tgatgcgggc gtgcattatc 180
actgtctaata agctccccc ttgtgatata acacgattac tatactgact tataaattat 240
tgatgtggag gtggacggac gaaatatact gagcaaatat tatgaggcga atttaagaac 300
tgttcacgat aacgaaccaa tacaaattac gattaatttg tataactatg gttgatgctg 360
ttctggatgg cat 373

<210> 6446
<211> 558
<212> DNA
<213> Glycine max

<400> 6446

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tcttgctttc aaagaactac ataggtatga gttcctcatc ggaattgagg atacgttgga 180

gcaagagccc cgctcttgtc gacctcaaaa agataaaaac ataaaaaagg gagaatgaaa 240
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 cgtgtggggg gctaatacct tccccacacg taaacaattc tcgaaccttt gatccttta 360
 attcatagac cgcttttttg tttttctaac cgtttcctca aataaatggt ggtggcgact 420
 ccgtgtattt ttctttcctt gaagacacac ccatgagtct tacgtcgccc ttctgccgaa 480
 gggtaggttg tgacaattgg cgactccact tgggaatttt tttaaaaagt taacccttta 540
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<210> 6447
 <211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6447

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 gtggccaaag atgtatggga gatcctgaaa atcactcatg aaggaacctc caaagtgaag 120
 atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgcac tgccttggga 240
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 gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtggatgaa 360
 ctcatgtggt cccttcaaac ctttgagcta agactctcg atggggctga aaagaagagc 420
 aaaaacttgg cattcatgtc caatgatgaa ggagaagaag atgagtatga cctgnatact 480
 gatgaaggtc tgacaaaagc agttgtgctc ccgggaaagc agttcaacaa agtcatgagc 540
 agaatggaca ggaggcagaa gcccatgtnc agaacatccc tttcgacatc 590

<210> 6448
 <211> 474
 <212> DNA
 <213> Glycine max

<400> 6448

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ggcaaaattg gatgagggaa agagtgggtt tcgaaatctg cactttatgc agaattttgc 120
 tgttgaaatg tgcagcagaa ttttgataa gtgcagaaaa aatgcttggt tatggctggt 180
 tgtaaaaagg gtagtacata tggggttttg tacatttgct agcagatccc aacgggtcaaa 240
 atgtagactt atgtactaga gacttccagt aaaattttcg agtcgatcca acgggttaacg 300
 aattggaaca aaggaaatgt tactggggta tttgtatgtg aaaagttgtg attttgagtt 360
 gtgttttggg cagagttttc tgcctttgcc ctgttttgct tgggtttgtt agtccatgat 420
 gattggatgt ggaattactt ggatgttggt gaaacttggg aggattgatg ggga 474

<210> 6449
 <211> 581
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6449

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 accattaaag gacccattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca ccttgcccta atccatttgg tgaaatagtc aatggcgatt agtaggaatt 240
 agattgctcc tggggctttt ggcagtggtc ctagtatgcc tattccctat aaggcaaaag 300
 gccaaagggg actcaagcta tggaggatgt cangaggggt gtgtggaatg tctacaaact 360
 cttggcatcg cctgaacctc cttatgaagt caagggtgtc ggccaataat agccggcgcg 420
 caccacttan gttgctaggg agcgaccct gatatggagg tcacagattc cttcatgtag 480
 ctcttgcatg agatagtcta cttgttggtt ttttaggcat ttaagcaatg atgtgttcaa 540
 ccctcttttg aatagctcac catcaaggat ggcgttgat c 581

<210> 6450
 <211> 392
 <212> DNA
 <213> Glycine max

 <400> 6450

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ttgttaccaa acaacctcaa ctaatgaaat gaggcattgt caatgtctaa aatatagaaa 180
 ttacctatca ttttacctat aatggacaac ctccccggga catggtttca ttattaggca 240
 taaattcttg ttgaattcga ttatgaagcc ttttgccaca tagttggcta aagcttagga 300
 cgttatgctt tagtccatca atatataaaa caattcttta tcaaggtttt gaatggaatt 360
 ccaatatattt ccttctccca taattatccc tt 392

<210> 6451
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 6451

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 ttttattctt ttctactttt gcagcaacaa caaatttaac catcttttca ccgacgagct 120
 tgtccctttc aataccaacc ccgacaagat gctcgacctc caacacacca ccaccttct 180
 ccctgcacc aagatcaaag cctctgctga ttctctgtc accgctgact ctgacctctg 240
 cattttcact actggcgccc gccagatcac tgatgagtca cgcctcaacc tctctagag 300
 gaacctctcc ctcttcggca ccaccattct gactctcggt cgttactccc ccaacgctat 360
 tctctcatc atttccaacc ctggcgacat tctcacctac acacat 406

<210> 6452
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 6452

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 ttccaaaccc ccctttcgcc ccgccagacc cccaataccc caattgggtc gttccctcaa 180
 tttcgcttct cctttcttat tgcaaattct gttatttaaa tctaattacc tcaatttgat 240
 ttatatattt caagcctctg atttactct atccttctct tctatccttt aaaactaaag 300
 cttctttttt tttttttgt gaccttctga cctgaattgg gaaa 344

<210> 6453
 <211> 635
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6453

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 aacaactttt agattacttt tttgttgttt ggttaagtta aggagatgga acaaggagca 120
 caggtgtgtc atatgagaaa ttcaatcatt cttcattctt acaatgtaat gtccccagtt 180
 tcagatgctc tttttttctg ggtgggctgc ctctatctat cagcaaaagc ccatcaaaga 240
 tcctaatacga aattcaatta tgatatgtgc aaattgggtt gggcctattg aagtctgtac 300
 cttctaaaac atattcttca gaagaaatta tgcaataaaa tttttgtaaa taaaaaaggg 360
 gaaataaccc taactgtgca actaaatgaa ctaatgaagt tcccaaattc ctctttgcta 420
 cattaacgta tatgttaact gtgaaatata ccacccgagg aatactacac atgaacgaat 480
 ctagtaatat attaatttaa tcagcaacac attccataat aaactgggtc tcagttgtta 540
 agggttntac tcagttgatt caacaagagc gtgagttggt atanaagttc ttaanaatgt 600
 tttcaatttc taccataaaa aaaaaattga ttctc 635

<210> 6454
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 6454

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 ggatggcctt gatttcccag ggtccacatg gacccattt ctaccaacta caaacctaa 120
 gaaaactata ttatctacac aaaagggtaca cttctctata tttgcataga ggggtgtttt 180
 cctatggact gaaagaactt acctgagatg tcctaagtga tcctctaggc tcctattgta 240
 cactaaaata tcataaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
 atgcataagc cttataaagg tgcttgggtgc attactgagc ccaaaaagtt ggtcttgaaa 360
 gcgaattttc actcatcacc ctttttcac ctgatttcgg gataaccact ttaagaaca 420
 atttttgaaa aaatattggc a 441

<210> 6455
 <211> 583
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6455

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 tctctctcta aaatctctag acatgcaaag ctctgaatcc cagtccaaac tccttatcta 120
 aaatctgatt tcaggcttaa ataggtgacc ttgttcgtgc tcgtgcgctt agcgcaattt 180
 tggaccgctt agcgcacatt agtgaatttc ggtttagcgc gtgcctttgt cgcttagcgg 240
 atggactgaa gcggtgcgct tagtgagatg aagcgggtgcg cttagcgaac ctatacaact 300
 catcttcttc cagattcttc cttgcgctta gccaatgagt gttacgctta gtgggcgctc 360
 gctaagccaa tggactggct tagccataag gtgaaaaaca acacttttaa aagcttgcct 420
 aattaacccg aaattgtcag acaatgatta ttaaacacac aaaatggaag tactaagtat 480
 ttattaccta tacttaacat anagtactta taacactaca aactaaccat aaattgggga 540
 agtttgatac aatntacaca ggttttacac acaaaagtta gtc 583

<210> 6456
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6456

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 cttcctagaa tacattgaca aatactttta ttataagttg atttatttta tataagtaagt 180
 tagcaaaaat gcttgaaatg gtgtaagggt gattaaaagg agacaatgtg tcaataaaat 240
 ttctaaatct agcttatctc cactaaattt ttgggtgttg ccttgttaca atagaaagtc 300
 gtacagttga acctgttga attttactaa tccccaattg tttaatgcaa attattagaa 360
 agttgatatt aacagtgtga taaatatgtg atatttttac caaggtctag catgaatggt 420
 aaataattga gtcttgatta tgtggatgaa aaaagctttg ttagtaaaaa attacctact 480

ttggtgaatt gtcttaaaag ggaatagttt tttataccct ttatgcattc caaaaagaga 540
gtaatanttc atcaatagaa ttatagtcatt tgcaatcatt tttcttaggg tggttgaata 600
ctttttt 607

<210> 6457
<211> 522
<212> DNA
<213> Glycine max

<400> 6457

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tagcatatac ttcagatcat ctttcttcaa gtgagtttga accccaaccg taggaaaggc 120
agtaaggcac atgttgtgag tctagaccac tcacaagtat tttagtcattg tgatgagcaa 180
tttatgtagt aacataataa catgcgagtc ttcaactaat aagttttcaa gctatgatta 240
tgaatttgct ctcttccttt ttgtttaatg ctttctaatt gtggtaagtg tgtcataaag 300
tgttttgtta taggaaagtt aaaacaagtt aattgttgac aaaaaatatt tttttaggca 360
caattaatta cttatacaac taataatgta ataaattggt gagtgtgggt atgtttgcta 420
agtcaaccat caaatctaatt ctgtgaataa ctgaaaatga atagaactta tggcgggtctt 480
tttagatatg tcttggtttt tagagcatgg tgaggataga tc 522

<210> 6458
<211> 381
<212> DNA
<213> Glycine max

<400> 6458

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tccactacca ctgatcttca agaagcaaag gactccattg atgaaggata tccaaggcct 120
acaagttcta catggagcta cattatgtgg tatcagagta tcttcatcta ggtgatcttt 180
tgcttactct atcttttggt cgggcaattc actttaattt ctttttggtc atcgtcttct 240
ccatgtatct cctccattgt ctagtgggtt ggtgttggtt aaattacatt caaaaaaata 300
aatgatcaa aacttagatc tacacttggt cttgcatttc catgggggtcc aacccatgcc 360
tcatcaatta aggaatgctt t 381

<210> 6459
 <211> 677
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6459

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cacatttggt gtgctaaatg ttgttaacat gatttttttag aatttacacc gattaaactt 180
gctatagaag ctagatttga ttttctatgg ttcaaattcc ttgttcttgt tcttgaacca 240
tgaatttgtg tgagttttaga ttcctttgag ttttgtattg ccattttttt ttgctgaaac 300
ctaaaccata aaatacttac aaaaacatta aagtagaaga aaacctcaaa aatctagagt 360
gacatgttca cctattatag tgttgtctta gaggtcatgc ctagtcatga aacttgtcac 420
ataagactcc ttatgttntg ttgaatttta ttttcttga ttctttatct aactcatttg 480
ttcataagtg tatgaaattt ttttagccta ttatttgatt cgagtcaaat cttgcatggt 540
aattagtcct taacatgtcc atgcataatt cttagagact ctttgattgt gaaccttttc 600
ttgactttta nngttcctta tgattgtgtc tattgtacat ttgangtttg gtgattgaat 660
tgctggctga attttga 677
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<210> 6460
 <211> 520
 <212> DNA
 <213> Glycine max

<400> 6460

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gatattgaaa tcaatatata tatatatata tttgcggagt gaaataacctg tcctttttct 120
ttgaaattga attgtttggt ttgcactttt tcttttggct aaatattctt ctgtagttgg 180
catggcatga cattgggttc aaccattttt tgctttcaga atataatatt gagacatctc 240
tgattaataa tgctttcatt cgtaaactac aatgaaaaca aaagccttcc tatattgaca 300
tgtactcaac gagatatttg aatctgtagg tgcaaagtga tgaagtaccc cattgtcagt 360
tttgtattaa catcttcgtg aagcatttat ggtccactgt cttatatttc ttatttaca 420
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agttttgctt ttgacctttt ctctgatttc actgaatctg ttttccctta tattgagacc 480
caaagtattt tttgggcata tggtatcttt ggttgattat 520

<210> 6461
<211> 692
<212> DNA
<213> Glycine max

<400> 6461

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tacctagaga tatgtcgcgg gggtcaggag accttgggga cgtcagggtgg ggtgctattt 120
cccaaaacca agcatgacca atcccgacct aaccggggca tagtcagtca gtgagaactt 180
gtgacgtacc taaacaggtg agctcctggc agtcaaccaa taaaagaaca aagaccacga 240
agcaaggagg cttgtgtggc ggctggtcag ctatgaatct tgagtgggtat ttggaaattg 300
gcctctggta attgattacc aagggtgtgt aatcgattac agggcttaga aatggaaaca 360
ggaagttaaa atggcctctg gtaatcgatt accaaggggg tgtaatcgat tacagggctt 420
aaaaatagag acaggatgtt aagatggcct ctggtaatcg attacccatg gtgtgtaatc 480
gattacatag agtaataggg cactggtaat cgattaccag ttaggtgtaa tcgattacac 540
agtgtaatth gtaggtttcc atgtgcagaa gctgtgtaac tcgagttttg ggcactggta 600
atcgattaca tactttggta atcgattacc agagaggaaa tcccttgaga aggatatttt 660
gactatgcgt aaccattatg ggacgcattg ta 692

<210> 6462
<211> 383
<212> DNA
<213> Glycine max

<400> 6462

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tgtttcaaat ggtgtacata aaagcatgcc acctacaagt ggagttagaa ataaaagatc 120
attgaagttc ctcaacttgg actctgtggc atccagagaa aagatgaaag tagagctaca 180
tggactttta gagatgtgcc tcaatgcata tgaatcatcc aagctctaca aagaaagctc 240
tacacagaga attaaggatg gaacaacaag tattgctttg caactcaaga ttaaagttgt 300

ttcctagaaa attaaaaatca agatggagtg gtcctttaca atcaaagact ttaagcctta 360
 tggagatata gagatagaag act 383

<210> 6463
 <211> 541
 <212> DNA
 <213> Glycine max

<400> 6463

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 aaggactcct tcttttctt ccttccatcg ggggaaccaa ttgattgttc tacctcctat 180
 cccagccaaa agctgggtccc aatctattct cctcttttca gtacacgaga gatgggtcag 240
 gagcggacat ggatgccttg tgtcttgca gaaacaagtgt gaaaccaacc aaacacagag 300
 ggcgggcaag caacagatga tccgtgcgt actcttttca caccttcggt caaatgtgtc 360
 aaataaatct gccaaagacag ctaccaccgg actttccttg ctatgggtgg atgcaaggaa 420
 agcgtcgatt gctgctaggt ccaccaaacc atccgcgttt ggaaagagga cgaccccaaa 480
 aattaacaaa gctaacacat ccataaacgg gaccaaatct ccttgattgg ccatacccct 540
 c 541

<210> 6464
 <211> 486
 <212> DNA
 <213> Glycine max

<400> 6464

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 tatgcataag tttatgtgga agcaaagcta ccatgatgat tcaccaagat gttttgatga 180
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 aaagtatttt taaaaaaaaa catcaaatag cacacttttt gttttaaaaa ggattttctg 360
 aaatcttcta agttaccaga gtttttactc tctggtaatc gattaccatt tggttgtaat 420

cgattaccaa tgaccaggat gggtttcaaa ctggtttcag tgctttacaa cgttccaaaa 480
tgattt 486

<210> 6465
<211> 559
<212> DNA
<213> Glycine max

<400> 6465

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ttgatccttt cgtctctttg gagcttaagc tcaactgctgc tgccccataa agctcctcgg 120
aacttgtttt agccatgttc ttcctttcgg gccctcttgg tttctcgttc caaggcttcg 180
gcgatggcca tattgatgtc ccttagttca tcatactctt tccaaacttt gatggccatt 240
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caacccaact cttatgttct gactatcagc cacttatgat agtcgttggg gatcccgttg 420
ctacttcccc taagctcctt atctttactt tgtactgcac ctcatgcctt gcggactcct 480
tgaagtactc tcgcattggg gtcactaaaa ccccgggcga tgaaaggcgt gatgctttcc 540
ttcaatggcg ctctctca 559

<210> 6466
<211> 451
<212> DNA
<213> Glycine max

<400> 6466

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taaaaagtta ttgtagtgtg aatttgcctc gggcttcggg attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctc 180
agagcttcgg cattccattt cgagcatttc gatattattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcgtt tcaatttgcct cagggttcg gtattccatt tcgagcgtct 300
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360
tcacagcttc tacattccat ttcgagcttt tcgatattatt acgggactca atcagacatc 420

cgagtaaaaa gttattggcc tttgaatttg c

451

<210> 6467
<211> 519
<212> DNA
<213> Glycine max

<400> 6467

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atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa tttaaacgac gataaccttt 120
ttactcggat gtctgattga gtcccgtaat atatcgagat gctagaaatt gaatgttgaa 180
gctctgatca aattcaaacg acgatgactt tttactcgga tgtccgattg aggctcgtta 240
tatatcgaga cgctcgaaat ggaatatcga agctctgagc aaattcaaac gataataact 300
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aagctctgag ccaattctaa cggcggtaag tttttactcg gatgtctgat tgagtcccg 420
aatatatcga gatgctcgaa atggaatgtt gaaactctga gcaaattcaa acgacaataa 480
tcttttactc ggatgtctga tggaggcccg caatatatc 519

<210> 6468
<211> 490
<212> DNA
<213> Glycine max

<400> 6468

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tgataattca atggtagcca taaccctagc caagggtcat caacctccat ttctccgaga 120
atacgactcg aacgcaacgt gtgcttgta cggagaagcc ccggggcggt ccattgagca 180
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ggagaatcgc ttgttgaatc ctaacattaa caagcaacac catacatggg gcaattctgg 300
aagctgttgt tatgactcat caggattttc aagtttatgc cataaaccac agttacaatg 360
ttaaatgata tagataaaat ggacatcctc tcacgaacac atttttgctt attcaacttc 420
caccggaatg tgagtgtgaag ccattggtct gtttgctcaa gcaacctgca ctctgaatg 480
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<210> 6469
 <211> 642
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6469

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gccgaggcgc ttccgtaacg tttccgtgag taattacgcg aagagtctcg accgttcttc 180
aaaattcatc gttcgttctt cattttcttc aatcttcaac gggtaagtac ttcaaaccaa 240
gcttttccat tcattctatg taccctgggt ggtccaaatt ttgtttcatg tatttttatt 300
cttgttttca tttacttttt ataccctt ttgacgtgct taagccattt atttaagtca 360
tttctcgctt aatctaaaaa taaaactaac ttccaccgat cgtttgaatt gtatcattcg 420
ttaattttgg ttaaaatgaa ttccgaccgt tcggctcgtgc cgtaaccacg ttggaaataa 480
aaaaagaggt aaaataataa tataataata aaaaatgtct tttagtaaag taaaagcgaa 540
aaaatcaatc agacgttttc tctttgggat ttctgattct taattgaatc gactaataac 600
taaagtgaag ctaaggctaa anatcactcg cctagtcaag ct 642
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<210> 6470
 <211> 554
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6470

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taagtacacc ccctgccttt ttttggatgat tcttttttcg taaagttacg gaaacttacg 180
aattttgtaa cgatacttgt tttcttttcg taatgttacg gaaccttgcg gattacataa 240
tcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
ccatttgatt tccggtgtgt cacggaacct tacggattgt gcatcaatat tttcttttgt 360
tntccggcat atcccggaat ttcacaaatt gcctaataat gggtgccaag cacctcacia 420
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ggaccaaaca aaagttgcat gtcacaaagc aaaggtcccc cggacgaaat tagggtatga 480
 cagtngeccc tctttacttg tcttttattg gagataaaaa gggaagtaag ataagaaccc 540
 tatttcgttc ctct 554

<210> 6471
 <211> 618
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6471

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 cccgccgagg ggagaggaca taaccaggct ttacatgtgt cagtcaaag catggaacac 180
 gttatggcca aagtactcat cgataacggc tctagcttga acgcatgcc caaaagcaca 240
 ttggagaaat tgccatttaa ctcttcccat ctaaggccaa gttccatggg ggtctgtgcc 300
 ttcgacgaca gccgccgaga ggtaaggga gagatcgacc tcccagtaca gatagggcct 360
 catacctgcc acgttacatt ccaagcgatg gatatcaacc cagcctatag ctgtcttttg 420
 gggcgctccat ggatccactc agtgggagtt gtcccctcca cactccacca aaagctgaag 480
 tttgtagtgg aaggacatat ggtcatagta tcacgtgagg aagacgtcct gntaagttgc 540
 ccttctctta tgccatacgt ggaagccgag gaggagtcac tataaacgac tntccaatct 600
 tttgaggtag taagcatc 618

<210> 6472
 <211> 482
 <212> DNA
 <213> Glycine max
 <400> 6472

agcttcccag ttatggaaag ctaaatectc tgtaggatct tccttgtagg tacttgatgt 60
 aaatatctta ttatctatct aatgatgttt tgtgtgttca ctgtgctatc agaacttcat 120
 tctaccatgc ttttacctg ctcacgtaga tgcagtgtc cttaagatca ttcaacagtg 180
 gaaactgggt tgatttttag aacttgatag gacaagacta gtttatcgta tttccatgag 240

gaatcgggggt acggtaacct agttgttgta tgtttgcctt aattcgggtcc cggtcgagtt 300
tagtccaaca aaaggaatct gcggacgata ctttatcagg attactagac tatcatgagg 360
aatcgagatt tagcatttca ggagacacca tagaacacat aagcattgtt atgtagaaaa 420
catcccttta acaccaggca cctactaaga agaccaacgt gatgtaagct ccattggagc 480
tt 482

<210> 6473
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6473

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tcgctaacaa atacgtgtct gaaagatgaa aaaagtgcga ctgntgtgtc tagccgttct 180
catgtcgtgc actagttaaa tacaaaggcc tcacaggcac agtaaggaca tatectacta 240
ctaaaatgat tgactactat agactttata tcacactgac gtgatctgca taggtacgaa 300
tggtaacaca caccatacgt tattatgaca actctatctc ttagctaggt atctgatata 360
tagactca 368

<210> 6474
<211> 565
<212> DNA
<213> Glycine max

<400> 6474

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attgtaagag attgtagtaa agattgatta aaaatgcaaa acaaagcctt acttttatag 120
actcttcatg tatgggtcaag aaagccattc agaagagtta taacttttag aaaaacttaa 180
aaccattttg aaaggggtcaa aacctttttg aagagttaca tcttttagatt tttcagaaac 240
aaacattgggt aatcgattac caaataagtg taattgatta cacaaagatt ttgagtgaag 300
caatgtgact cttcacattt aaatttgaat ttcaacgttc aaggacactg gtaatcaatt 360
accaaatcat tgtaatcgat tacagccttt tgaaaatatt tggaacgttg taaattcagt 420

ttgaaaactt tttcaaactc attttgctac tggtaatcga ttacaacaat atggtaatcg 480
attaccagaa gagtaaaact cttttgtaaa ggtttttgtc aaaactcatg tactattcaa 540
aagttttgaa aaccttttaa tactt 565

<210> 6475
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6475

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gatttgaata ttacctcttc accatcagag ttgacagtgt tatcaggcta aggatgtatc 120
aaccattaga cataggttgg tttcttcctc attgtcctta tcagacaatg aattatccaa 180
gtcctcccaa gtgttcatga ggctttttaga tgcaatccta ccccgcaagg gcattggata 240
gaagactcca agtttattgg gccagagatc caagggaagg ccctanggtt ctcattgagcc 300
ttanggtaga tttcagagccc atgggctaag tatgagcccg cttatctttg taaatattag 360
aatagatttt tcctttgctt cgcgcccttg tatttggccca ttctagtaat atagggcttt 420
aaccctgtat ttcggggcat tttgagtagt ctttgtaaca acgacttttn ttgtttttca 480
tgtttt 486

<210> 6476
<211> 494
<212> DNA
<213> Glycine max

<400> 6476

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ccattcaaat tcaaagtggc tgaggctagc ttttgcttat tgttgttgca tgcattgaata 120
actagctata tattgtaagt taccaattac cacgtatatg ttggctatgc aatactatat 180
tatcagttat cacgatcata aagtactacg aatgatgcac ggtaacacgt ttggataaaa 240
ttttctgtgca ctggtttcca tgaatatcta actaacgtgg gatgttttcc tcgaacaatt 300
ttttttttgg gtacgtaata gtaacattta gttttttttt tctttttttg atttaatacg 360

agatccatag tatccgaatg ttaaattaga ctggatcaac tgagggtaat attacttatt 420
 cttttttttc atatttgtaa gtataacctt tttaatataa atttaattct tttgagcata 480
 aaatgaaatg aatg 494

<210> 6477
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6477

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 aaatgcagcc ttcgggctct tgaggcttga agtgagagaa ataaaaattc tagttgtaa 180
 ggaactcatg gttagcgatc aattctctga tgatgatact catcacatga atatctatct 240
 tgagaggatc aaagttttgg agcagtgaaa attcaacctc taaggagtgt gtcgctgaga 300
 tttttttttt tttttttaca tatgcttgca attaattagt ttgtgttcaa tcacaaattg 360
 gcttttatgt aaattattgt gatattcact tntccatttt gaaaaacttt ttatgctgtc 420
 ctaaaaaatc ttttaattcta tgagatataa atacattggt ataaatagca 470

<210> 6478
 <211> 1107
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6478

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 nnaannnncc acgattgaga ccatggcaga accggggatc ctctanaaga cgactcgag 180
 gcatgccaac ctgcaggctc gttaaaagaa gaaaactttg ctataaaaag ttatccacca 240
 cacgaatcaa aacactgagg gcacttattt taaaaactaa caagcctcta aaatatattt 300
 ttaaaatatt tccataaaact tatttaattt tctggctcag aaatccctaa ataaatcttt 360
 ttggtcgtat tcgcaatttc cttatatatt aaaatttgct ctcggagtgt ttaatccgta 420

taaccgggtt cctttttaag gttgataatt taaaagaatt gactggtgag aagaaatcat 480
 attatcactt cactacttca aaacaaaaag gtttgaacat aatctagggg ctaataatta 540
 tattatataa caaaaactta ttctggagaa cctccagcta aaaaatcgga tcccttttat 600
 cttattacgg atctccaaca gaaattttaa aacacttctt ctcgggcatc ttcagaagtg 660
 aactcgcaaa tgtacaaaca aagaagggat tcttttggtg atttggcttg aaaaccaccc 720
 acactcctta aatctggtga taggctacaa ccctcaggac ctatatatttg tcgcacggca 780
 ttttggaacc ttgggactcc cactttttcc atgggtcatgg aaataaagag atgggaattt 840
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 cccaaaattt actagactac cttcttttcg tttgttaaca ttaaaataag ttaaaatacc 960
 cctgtctgtt tctcttctcg tgtcagggt gatctaactc atctccacca tacaacgac 1020
 atagcgctga tctcatcggt cccgctcgtc tgtattctaa cgtcgagcta cttataccgt 1080
 cgatcacgac tacacagcga cagccg 1107

<210> 6479
 <211> 565
 <212> DNA
 <213> Glycine max

<400> 6479
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 ccatgggagc ctatatcaac aaagaatgaa gaatgtgttc gacaagaaag tgcgcttgcc 120
 caagttccac gaaagggacc ttgtgctgaa aaagatgtcc cacgctgtta agaataatc 180
 gaggggaagtg ggcctccaac taccaaggac ctttcattgt gaaatgggct ttttcggag 240
 gggccttggt gcttgccaac atgaatggcg aggagctacc tttaccctg aactctgatg 300
 ttgtcaagcg atactatgct tagaatctgg ggcaattaag gatatcattg catgttcttt 360
 tatttttatg tgttcttctt gggttcccc aaggattccc gtctgctgta tatttctcgt 420
 cacagtcttt ttaaaaagaa gagaacaaga gtttgaggct tcaatcctca ctttgggctt 480
 taaaccatgt gcagtttggt ataacctgag cctttttcct tagtccatgg gatgccccaa 540
 gcgcttaatt aaaactgaac ctgac 565

<210> 6480

<211> 476
 <212> DNA
 <213> Glycine max

<400> 6480

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aatctatatg ttcaaggagc atgacattaa tgtaaattgca aagattcatt gaccctcacc 180
tttgttcctt tcaaaaattc agttgccttt ggtgatggca tttgaattac cttccattcc 240
aagccatggc tccactagca cagatctatt tgttattgct gtctccatct tgttagtgtt 300
atttggtcga ctttgttatt gcttggtaac tcgcaagtcc aagggaacat attacaatga 360
caagccatca aaaagctctg ttacttgtag agtggtcaca ttccaagaag tccaaaaagc 420
aaccaacaac tttcaagaag attttctttt tggcatttgg gggtttggga atgtct 476
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<210> 6481
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 6481

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agaaggtgca tgagaatgat gagataaatt tcaaagacaa ttttctaata aaactgtctt 120
tgaatactta atttctaaga taatttttat aaaaccgccc ttggatatat aactatagaa 180
gcaaagcttc atggggaatc aaaggtgatt caaaggtgtt ttgatgataa ccatgatgat 240
tacacaagat gatgactcag gtgatgacaa aaagctcaaa gatcaatcac agaaagcctt 300
aagtgaatca aagatcaatc aaagaaccac cttatgtgaa tcaagaacaa ttcaagagtt 360
caagataaga atcaggaaga attttatact caagaagaaa gtctaaagtc aagaatcaag 420
attcaagggt caagatgtca agaattcata tcaggattca gg 462
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<210> 6482
 <211> 1035
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6482

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ggcatcagct tgcttgcggt atcattaaca gcgtaacaac gtgatgtatg tatctccgat 180
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gggatatctt cattgacatc gattatgact tggagaccgt cattagtagg tggagcaacc 360
acactttctt tcctttgact tatacttgaa aaaagaatat cccgcactat attcgcttct 420
agcatgcact aatgcaaaga gaatatattc cttccagggg gaggagctat tactctttaa 480
aaactcgcct catagctttt cttaggacgg gagaactcac atcaatacca attaaacact 540
tgacgatttc acctgaagat tccattgacc tcccccatgt ggttggttat cctaaaccgg 600
aggcgacatc tctagtntac ctaataccga agactcttcg acgtctcttt ttatttcaca 660
atcataacac ctctcattgc aatttcatct ataaaaaaaa tgcggtgccc cccgcctcac 720
tttaatttca gccaatcgaa ccttaacagc ccccttgcta aagtaattaa taactgaaaa 780
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ttgggcaaag gggcattttc aaaacacaat ataatggggg cttegaagct cgggtcaaaa 900
tagtttcacc cccccaccat tctatctaca ctactatgg ttcggcctaa gcattcaaaa 960
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tctactggtc cgcct 1035

<210> 6483
<211> 909
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6483

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ccgggacctg gatantctaa aggcgagctg cagcattcaa gcttattcga agccccttga 180
attgattgcc aagctctggg cgttcatgaa tccttcgccg aatgattgc ctaaccctgg 240

tcctgcatcc tccaatatca aatcttattc cgagcccat gaattgattg gcgttcattg 300
 atccttccca ttgagtcccg aaccatacca attgactgcc cagctccgga tatgcctacc 360
 ttatcaataa aatctattcg aagcccatg aattgaatgg cattcctgga tccccacc 420
 attgaaactg gaaccgccc aaatggatgg ctaatggtgg tccggccatc tccaccaatc 480
 tattgttacc ccatgaaatg aatgtggtaa cgcattcctc acctttgagt tcagagcctt 540
 acgaaatgac tgccgcgctc tggagatgcc tctctataa ttaaatctta atccaagccc 600
 catgaaaaaa tggcacttaa tgcattgccc tccattgagg ccagagccca ccaattgatt 660
 gccaaacgct gttcgcgcat ccttcacaat ttattccgga cccctaaca tgggtggggat 720
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 ccattcctca ttaaaaactc taatctagcc cctgaattat ttgccttctg ggcctctccg 840
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<210> 6484
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 6484
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 tatatggcta cacctttgag catgatgtat ttattttttt aacttggggg tattttttta 120
 attttactat gttagcaagt tttgttgttc ttgattgatg cccctttggc accttatgaa 180
 ttcttgtatt ataattggca caacctacct tacgacagga tggcgaagac caaataaata 240
 agccaaagcg ttcgtcttca agggaaaaaa tgaacggagt cccaccaac gtttattcga 300
 gaaaaaatg ttagaaaaac ccaaaagaca tctatgaatt ttgaaaataa aggtttgcga 360
 gttgtttaca ca 372

<210> 6485
 <211> 452
 <212> DNA
 <213> Glycine max
 <400> 6485

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 tcaaacttct atccctcttt cttttctttt ttgaaactt ctccctttgtg gttgagtttg 180
 atctatgttt tttctcatat ctatcccaag tcacaggtaa gttagttttt ccactcacta 240
 ctaaaaaata tacatttaac atcggcaggt taacatcggg ttccgaaaaa accgatgtta 300
 acaaaagcac ggtggcatac ttgtaattaa gattagttaa ttaacatcgg ttttatacaa 360
 aaccgatgtt aacacaaatg ccgtggcaat gttaacatcg gttttttaaa taaccgatg 420
 ttaacattcc ctaattaaca tcagtttttt aa 452

<210> 6486
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 6486

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 tacacatgcg cgtgtgcata aatggattac atgagtttgg tctaaatcaa aggggctagc 180
 acgacatttt tgcgttaata taagcattat cttgtaaaac taacttctaa atgtttgttc 240
 tcgcaggaaa tggccccgag gaaacttgcc tcaaagagat ccaggaagga taaagcggcc 300
 gaaggaacta gttctgctcc cgagtatgat agtcaccgct ttaggagcgc tgaacaccaa 360
 cagcgcttta aggccatcaa gggatggtca tttctccgga acgacgcgtc caacttaggg 420
 acgacgagta taccgattt 439

<210> 6487
 <211> 538
 <212> DNA
 <213> Glycine max

<400> 6487

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 ctactggaat tccaaaataa gaaaaaggct ttctttctct ctttggccca gggaaggaaa 120
 ctgaacacca tctaagggtg gcctattaaa attctcctca gaaaatctgt ctttgaaatg 180

atataaagct gcatttttta cactgctagg cttatggacc cacacaccat ctatgatcag 240
accttgaata gcattgcgcc tccttctatg attaatcagt ctatgaaaat agttagaatt 300
gttggtccct tcttttaacc acttcagtct ggcctgattc aaaaacataa gctgcattcc 360
aaagctgac ctgaaggtat ttcttgagct ccacttcagc ttgagacaaa gttctatcat 420
taatacctac ctccaaaacg ttcaactcca tctttaaatt tggatttttc tagcattaat 480
aacacccttg gataagctcc actgccttat gccaaacttta atgaacttta gctttttgc 538

<210> 6488
<211> 890
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6488

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ctaattttta accttggcgc ccatatcttc ttcaaatac caaaagaggg cattgtctaa 180
ggctgaagtg cgtgtctaca gtgggaattt taaataccag gtgtgggtgg actactttct 240
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ttggttaatg aaagataatc gggaaggaat atggggaaaag catgatgaaa ttgccatgct 360
cggatgagct aaaccacccc aaaaagttat agggttctta tgacgacgct tgtgaagaat 420
aagagctgaa aaaacctaag ggaaaactgt tgaaattaaa gatacaactc ccctaggggt 480
ttaagacag aatggggtgt ttaaaacccg aaaccaagaa agaacctagg gcttgggaagg 540
cccaatggag gcagtgttac ttatataaaa gggaggaccg tttaaagctc gaatctttaa 600
cctcgacaat gccccgtac gcaaacgtag aaatagatat gggacgcccc cctccctatc 660
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caaagaaagc gttctgcggg tacaccaaac acaaaggtg cgggatatac tctctgaggt 780
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tgctttcact catcaacact agcatctctc ttccactacc ttatcccccg 890

<210> 6489
<211> 614

<212> DNA
 <213> Glycine max

<400> 6489

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aagttcaatc aaacaatcat actttcagct taaaatgggt gcaagggata aatcaatcat 180
gcaccaggta agcttttttag ctaagtggct ctcttcaatc aaaatatggc cttcatcatc 240
ttcaatttca cgcattcatt ccatactcaa agattcatgc aaaaatcatt actcaatggt 300
agtcgttctc tcataattaa agatcacact ctcaccagggt tgtggctaata gagtaccttc 360
acaatcaaac tgtcaaactg actaacattt tcagtcatga tcctaatacaa tgttctttct 420
tctttaatga ctgcacactt cattcaaaca tatgatttac gcattccaaa ttactcaaaa 480
tcacgccatt gatcacttca aaccaattac aaacacttga atgccaaaat caagtttcaa 540
ccactgggcc attcaagctt tgtacaagct atcaacccaa attaaaaatt taacctaaaa 600
tttaaaagct aaaa 614
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<210> 6490
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 6490

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agcttaaaag aatcagaggg gctcaaacac gctatgactt actcaacctt attgaagggg 60
aacgcttgat ggccatgtgc catgggccc tatatcaaca aagaatgaag aatgtgttcg 120
acaagaagggt gcgcttgccg aagttccacc aaggggacct tgtgctgaaa aagatgtccc 180
acgctgttaa agataatcga gggaagtggg cctcgaacta cgaaagacct ttcattgtga 240
aatgggcttt ttccggaggg gccttggtgc ttgccaacat gaatggcgag gagctacctt 300
taccctgtaa ctctgatgtt ggcaagcgat actatgctta gaatctgggg caattaaaga 360
tatcattgca tgttctttta tttttatggg gtcttcttgg gttccccag ggattcccg 420
ctgctgtata tttctcgtca caagtctttt aaaaa 455
```

<210> 6491
 <211> 1014

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6491

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cggcaatgca aagccaaaaa ggcnnccnaa gatgaccgag gcaatgcaan nccgggcaat 120
aaaaaagaca ggaagcgggc aaacagggaa gacgaagggg aaggtggaga ttttggggag 180
cggacagaaa aaaaagaacg gggggggagt gtttgatagg ggaaagaacg acccccctaa 240
agaaagaggg gcgcgggaga acaaaacaca cggaggggag agggcgaacg gaataaagca 300
cacgaaagaa agggggagaa aggaggcgcg cggcgggaacg gaggaaggaa aaggacggaa 360
agaaggagaa aaaaggagca gcgacgggcg caacggcgca agcgaaaatt aatagaaaaa 420
gagaaaggag acgcgggaaag aagaaaagga aagggaagag aaaaaaagga aaacgggggg 480
gggggagaca aaaaaggcaa aaagaagggg acagaggaca gaacaacaga aaagcaaagg 540
caaagcaggg gcgggggggac gaaagacagg aacaccagaa aagagcgcaa cggaaaaacg 600
aaaaaaaaac ggagaggggg gaaaggaggg aacagagaag aacgaacacg agaaggaggc 660
ggacgagagg gaagcagggg aggaacgggg ggaaaagaag aaaggggcaa aaggaaagaa 720
gcagacggca acgcgggggac gaggcgggag aagcgagggg agcgcaagag gggaaacaca 780
gaagggaggg aggccggcga caggggtggg aaaatagggg acgaacaagg ggaaaaaag 840
ggagaccaa gacggagtga acaaaagaga gaggagggaa aagggaacaa aggaagggga 900
gagagaaggg agcaagaggg ggagaagggg gaaagaaaag aaaaagacag ggaagagagg 960
agcggacgag aaaaaagggg gaaaaagagg agagaaaagg gaaagagcaa aaag 1014
```

<210> 6492
<211> 792
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6492

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aacgaatatt tgactaaaga anacggnnag tgaactgtct cccgaccaa ataaagagaa 120
caacagacga acaaccccg gaattttcat tttggaaaaa acgagcaggg acaaccgata 180
```

aaaagaggtc caccagaaac acaaggaaaag gaagaacggc acagggaaaag gatatagaag 240
 ataaaacatt aaggggatgg ggacacgaaa cacaatttg cacaaggaga ttttatcaca 300
 acaccatctt aaaaagaaga gggggtcaaa aggacaataa cagaatctaa aaaccaaaaag 360
 aaaaggagca aagaaataac caagaaatcc gcctgggaaa attaagaaac cagcccaaca 420
 agagggggaa tgattactgt ataaacgaac agcgaccgac aaaaattatg gaatgaacga 480
 agcaaggggg tcttgtaaag gactgggcac caataaaaaa aaggataaca cctccaataa 540
 ttgaaaatgg caaagatagt taaaacatac aaacacggaa ggcgaaacga caaatcaag 600
 gaaaataaaa tccgaaaaca tctcctccct ctaaaaaaca tcaaattaga aagtaaagcc 660
 taaaaaaaga aagataaaag agggaaaaac aaaactcggtt aaacatacac aaacggttac 720
 acaatctatt catcaaaaaa caccaaccac taacggattg cacaatgaac acaagaagca 780
 gacaaagcaa cg 792

<210> 6493
 <211> 488
 <212> DNA
 <213> Glycine max

<400> 6493

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 tggaaagatg tattgtctcc ttaaaacttg atagagcagg attagggttat cgtatttctg 180
 gacacggagt gcgtaattht agttttttatt atgctatgat cataaagctg ttcaattaaa 240
 ctaagttcaa taagagacat ctgtgaacga agtttaatta gaattaggct aaactcatga 300
 gacatcggtg tttagtactt gagccttcaa catagaacac aaaaacatct ttaattagag 360
 aaacatcctt aattgcatca atttgctcag taagaggacc caacaccttt aaatatttgt 420
 tttcacactt gctcacattht aaggcttttg taattagaat agaacatact tttactttta 480
 ttcacaat 488

<210> 6494
 <211> 522
 <212> DNA
 <213> Glycine max

<400> 6494

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tctcggtttg tttacttttt atgccccctg ttgacgtgct taagccattt tacttaagtc 120
gtttctcgt taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180
attaactttg gtcaaaatca attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
aaaaagaggt aaaaaataat ataattattc aaaagacatc ttttagtaaa ataaagccga 300
aatcaatca gacgttttct ctttggaat tctcattctt aatcgaattg attaataact 360
aaagtgaac taaggctaaa atcaactcgc ctagtcaagc tcgtccacaa aaataagctt 420
ttgaagattg tcatttcaat ttttactaa gtaaaatggg tcatttttaa agtccaacgc 480
tttaaaagat cacccttaa aacaaaaag aatcacttga tt 522

<210> 6495

<211> 502

<212> DNA

<213> Glycine max

<400> 6495

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gtcaagtata gtattctgaa tatgccattt tttatgaaga'gatgatattt atctgaatga 180
taagtatcat cttactctgt aaacagctcc caaccgcct tgtccaagtt tattaataatc 240
agcgaattca tttgtagcag ctgcaatggt atcaaaattg aattgcaatg actcaccaaa 300
tgtaatttca tcttcgggac tatcttctcc ttaacctca cctgaatggg gacccccctg 360
aaattatgtg agctattcaa aatataacat tgagagatat tatttctcat atacaaaccc 420
agaaggaaat ggctaaattg gcttctcgc ctatcttttt tttattotta gctataagtg 480
aatgagtaaa gcatgcgttc aa 502

<210> 6496

<211> 1081

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6496

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atagctcnng gagaccaaac tgcngcatac aacgacaact agtgacaaca ancnntcaag 120
gcnnncnacna cgagggttga aatcgatggt ggaacgcacg tggaaangga ggctaataaa 180
ataaaccccc acggcaactc aacaacgaac aaaaaggaga gaagatctct gattttatta 240
tatatacaac gcgccaaga agagggggag agattttttt ataccacca ccaccaccgc 300
ccggaccgcg gaagaggagc gtggagaaga cggaacagga tagcgagccg gcgacacaaa 360
gaaacaaaat ggcgagaagc acgaaatgcg tagcgccgga cggaacgaac gggaagaggg 420
cgaaccagga cgccgaacaa ggagcgacaa ccaggcggcg ggggaacaga agagagaaca 480
agagagccga acgggaaatg agaagacgcc gaaggagaa aaggagaaga gaaaggggaa 540
caggaaagcg aagaccggga caagaagaga gggcaaagga gaggagcaaa agggagggcg 600
aaacacgaac ggagacgcag atggaagagc aagaggcgac gaacacagag gaacaatgac 660
gaaggagggg gaaagggaga gatgaaggac agataacaac gatgcgggaa ggacgacgcg 720
gacgaagacg acaggacacc gaggagagcg aaagaggag cgaacagaga cgcgcgcaag 780
gaagagaaga ggaaacagag ggaaggtgaa acgggagacg ggggaaagcg gaaacggggg 840
agtagcgag aacgggagag atgaaacccg agcaaagggg gacgagaagg ggaagtggcg 900
accagaggca gaggacgagc acggcagggg acaaaacggc gaagaggaca agaaccgatg 960
cgacgggacc agaaaggagc acacgagcga ggaaggacgc gagcgacggg aaaaaacacc 1020
ggggggacac gcgacagaga cgcgagaaaa gggcgcgaaa caggtaagca aagaggcggg 1080
g 1081

<210> 6497

<211> 496

<212> DNA

<213> Glycine max

<400> 6497

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cttggtcatt tatttctttc tccacgacca ttattggttt ttcactctcc tgacttgcca 180

catctgttac ctctcttttc tttttctcag tgccatcctt tacaacaatt tgtttctcca 240
aagccaccct atcttcatcc tcaactacca aacgcttctt gtttcttgtc atcacagcat 300
tacattcctc tttgggattc ttttctatgt tcgccccaaa gctattggat gacttttcag 360
ctaattgttt ggctagttgg ccacttgga tctaaagggt cttcaatgct ggctcagtgc 420
ttttggtgat ttgacatggt cacctgcatg aattgagtc aagcctcctc agcttgggtg 480
cccttttgaa aatggt 496

<210> 6498
<211> 481
<212> DNA
<213> Glycine max

<400> 6498

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cgttatgaaa atctgagatt tatctacttc catagtaact ggctatatgt ttaagtttgt 120
tttcagtgcc catagtaaatt tgggtgtagaa agagcttaaa attccaaatg aatatctaatt 180
ttctggccaa gatccattta acatgaataa ataaataaat tggcaattgt ttaatgtctt 240
tgtacctgaa accttgagga agaaaataag aaacatatat gcgaatgaac caccacaaac 300
ttcatgattt agacatgtgc ttttatgcct aaattaattt ttctgaatgt aagtgacaac 360
taccactttg atggaaagtg ccgaactcgt tcaccaatta tagaaaatac caaacttggt 420
cactctatct gaacgtatat tttggtaaaa agcgcccaaa attaagttca acttttcacc 480
t 481

<210> 6499
<211> 888
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6499

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gtataatata gtataaaggg gaaaccgaga aatgaacttg ccttcganac cnaataaan 120
gnaaacaccc ccccccccc aaggnnnann nagatttttt tttttgagaa aaaaaagaa 180
aacaagataa acataaatta tacccaaaaa actaaataaa gtaaaaaaaa catcacagta 240

aagacaataa aactataatt aacaaaaaaaa aaaaatcaac aatctaggaa tttacaaaaa 300
atataaaaca gaaaaagctt ataaataata aaaaaaatat taaaaacaaa atgtggtatc 360
aaaaccacaa aacattaataa aaaactactt aaccaataaa ttattaatta tacaaaaata 420
aaattacatg aaagaaaaac aattaaaata atttaaacag aagaaaaaga aaaaagaact 480
aaattgcata cataacacaa aacacttaaa atcatctaaa acgaaataca acaaacaaat 540
cacacaagaa atagaagaaa aaaaaaataa ataaaagcaa aaaatcgaat ttcacaaaaac 600
atataaagag cataaataaa acaaaaatga aatagacgaa taaatggaaa aaaaataatt 660
aaagatTTTT tgttgtataa aaaaaagccc ccctggagtt ataaaaaaaa aaacaccaa 720
acaacacca caacacaaag agagaagaaa aaaataatta aaaaaagtgt atggtggngg 780
ttnnnnnnnn nnnnnntnnn ntattattat aagggtgtaa taaattanga acatccatac 840
tccacatata catatgtata ggagggtga anngtgctca tggtnntag 888

<210> 6500
<211> 400
<212> DNA
<213> Glycine max

<400> 6500

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gtgctcatca tgggatgatg gtgtatcaaa tggatgtaa aatcatattt ctcaatggac 120
taattaagga agaagtctat gtggaacaac ccctggagtt tgagaattct atctaccttc 180
atcatgtttt caagcttaaa aaggaccttg tatggtttaa aacaaactcc ttgagcttgg 240
tatgaaaagc taagtttggt tataactgaa aatggcttta aaagaggaaa agtagatact 300
actttgttgc ccaaaaatta tggtaatcaa ttctaatcg gctagatata tgtggatgat 360
atcatatttg atgtcctaa tgactcttta tgccagcttt 400

<210> 6501
<211> 938
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6501

atagaaaaac ggaagacgaa gaatacaaaa aagaacacga gaaatcaa at gggagaaaaag 60
aagttccana aacnccccaa agggatggac gagatgaacc ntatgaaaac cnaannaana 120
ggaagaacaa aaggaaaaac aacaagaaag gagatagggg aaagagaaaa aggagaggaa 180
agggagggggg gggaggagaa gaagagagca aaaaagaaaa ggagaagaag aggggaagaa 240
agagagaaaa agaggagaag agaagaggga ggaaaaaaag aagaggaga gaaaaagagg 300
aaaaacgaga ggagaagaga agaaagagga aaaaagagga aagaagagga aaaacgaaag 360
aaaaagggaa ggaggagagg ggggaagagg ggaaaagaaa ggaaagaaag agggacaaca 420
ggcaagagga aaagagagga aagagagaag aggggaagggg aagagaaagg aaagaaaaga 480
aaaggaagag ggaagagaag agagaaagag gaacagggaa gaggaggagg gaggagaaga 540
agcaaaggag agacgggaaa agaagagagc ggcagggaaa aagaaaggaa aaagaagaag 600
ggaacgaaag agaagaaagg acgaaagaga gagagaggaa gaaagaaaga aaggaggaga 660
gagaaaaaag gacagaggaa ggagagaaaa aggaaaaaga ggagatggga gaggagaaga 720
agagcaaaaca gaaaaggaag aaacaataga gagagagagg ggaaagagag gaacggggaa 780
aagaagaaga aagagggagg agggaaagaa agacggcgag aagcagaaaa acggagaggg 840
gcgaaaggag agagaagaga gaaggaaagt acgagaaaga gggggaggaa aaaagagaga 900
gaaagagaga gagggaaaaa agagagaaga gaggaaa 938

<210> 6502
<211> 687
<212> DNA
<213> Glycine max

<400> 6502

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ttaacaactt ccgtttgccc atcggtttgg ggggtgacaag tggttgaaaa taacaattta 120
atgcccactt tgctccacaa agtcctccaa aaacgcaa at catcaagcct aagtatagga 180
tgcttatatt taatggtgat gttattaagg gctctacaat cagaacaa at gtgccatgtc 240
ccatcctttt tagggaccaa aatcactggg acagcacaag gactcatact atctcttacc 300
caacctttgc taatgaattc atccacttgt ctttgaatct ctttggtttc ttttgaatta 360
cttctatagg ctggcctatt gggcaaagaa gctcccgga tgagatcaat ttgatgctca 420

attccccctc aaggaggtag tccacttggc acatttgggtg gaaacatgtc atgaaaatcc 480
 tgcaaaagaa ttttaacact agaaagcact taaaatcatc aaaagtgtta ggggcaaaat 540
 ctgatttttg cataacaaga tatagaacga ctgtttaaca ccaaacaacc ctcttgacct 600
 cactttttgt gggttaatac ctctccctca ctctaagggt tcccccttc ttttggaacc 660
 tctttttccc tcccagtgg tccctca 687

<210> 6503
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 6503

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 gataagctct ttctgcctct ccacttctc gcttggcaca agcacaatga tccaacaaaa 120
 tccccaacac ttgcttggaa atgggggtcca aatgggtccct gatgatctcc tccatgcgtt 180
 ccactccgcc attttccgtc agaacgcgaa ccattatggc tgtaggagaa gaaacagtgc 240
 ggatgtaaag ggaagaagaa aagtatggtt gaacctctgg aactctctcc agagtctgcc 300
 tatgtttgtc tagttgagtg tctcataga aagttttgag gtcactctggc caaagcacat 360
 ggtctttccg gggaggccaa tcaagaatga gaagtagcat tgttggacta ctgggggatca 420
 tttcaaacac aaaattt 437

<210> 6504
 <211> 1035
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6504

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 caggaccac acataacccg gccccccgcg gccaatgggc cgtgaccacg ccnnncnnan 120
 aaaaaaacca agggagaagc gacgccgacc gcccgaacg cggacgcac agaaccaccg 180
 cagacccgaa caacgagggg acgacagaca accacaccac cccccaccac cccaagaaa 240
 aaagggacag acgacagcgg cgaaaaagac acagcagaca acgaggacga ccggccccag 300
 gcagagagca cgaacgcgca cgcgccaggg cgcgagaaa gagcaaacag ggggcacgca 360

gaagcaccaa gcccgcgac aacacacgac ccaaaacacc gaccaaaacg acacaccggc 420
ggcgggggcc ggcgagagcc gagctcagca ccacgaccgc cacaacagac aagcgccgcc 480
acaccacaa cacacggaac aagacgcccc aacggtcgaa acaacgacac acagaccgcg 540
gccacaaggc accagggcat cgacgacgca atcggcacga gagacaggac caagcacaaag 600
ccacaccacc agcgaccaca gcgccaacg accccaaca gcaagacacc cgccaacgcc 660
aacgcgcgcc acaccgcgc cagaacccga acccgggcag cacacgcacg aaacgaccga 720
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gagcaagagg acggacacca cggagcggaa agcaagacgc gacacaacag accaagacgc 960
aacacgaacg anaccacgag cgaccaaaca ggagaaaccc acagccggtg gcagccggcg 1020
cgcgacgagc aaccc 1035

<210> 6505
<211> 916
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6505

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accgttggtg caccggtagc caccacacnc ganctgcatg catgcaagct tctgatgcca 180
cctcactccc acggagactt tggttgaaat taaaggatat ggcgcatgcc catagtgggc 240
attggaggct tggggaagac cacacttttc aaggtggcgg tcaacgacaa gaggatggat 300
gaaccttttc aactgaacaa gcggggcggg atcctcggtg accttgacac ttggcacaaa 360
attattaaaa atgtcaacca tgctttagtt ccaaccattt ccttggctta acatgaaatc 420
attaaccatc tagaaattga ccagccacac aagtcattca agaataagcc ttctggccaa 480
aaggtcttac tcaggcttga tgacctatgg aatggaaaac atgccaaaag gatagagtta 540
aacaagtgga ctcagtcggc ccataggaaa caaatccaa tgggcgctga accaaaacca 600

ctggtccaag gaacgctccc caaaagcat aaacaggcct tccaaggaaa atggccaaca 660
atccttcgca cgggccgcca aggaagccaa gaaaaccttg agcgaccagg cgagcgccgg 720
ctgtaaacta gcacagccta gctccccacc gcaccacaat ccatcccgcg cccctcacgc 780
tctcaaacc acacatacaa atcagcactc ctccgcgacc accccacccc cgcagcccac 840
ctctcccact tgacacaacc gcgacgaggc ccaactctc gccaccgac tgcccaggcg 900
catcacaccg aatccg 916

<210> 6506
<211> 248
<212> DNA
<213> Glycine max

<400> 6506

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ggttttggcg acacaaaaaa tagtttcat aattgtgata cacaccatta tgacccccag 180
gggggctcct cttggcagcc ctttatttct ccaataaacg tttttctgta aaaatccttt 240
acctgaga 248

<210> 6507
<211> 1009
<212> DNA
<213> Glycine max

<400> 6507

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ctgcagcctt caaaatttat aagagatacc tccaaacttg cgtcaaccca aaggcgcacg 180
cagctcgatc gaccacaaaa cgggtgacta tgggctaggg agcgaacacg ggcggctaaa 240
ccaaaacttc ttgacgtccg cttggcgcg acaaaggcgt ctaaaagcgc cctacctgga 300
cagataggcc attcgaagcc caaattaagg agagtggcaa agagaggggtt caaagactgg 360
gaagaatgtg tccgagaacc attaggtata ttatggaccc caaggaacct cggggaccat 420
accctcggac ctcaaatttc ctctgctaaa cacagcctcg tgctacggaa tctatccggg 480

ggagggagtg aagaaccccc attgctgtt gaaaactgaa atactctttc ctactgggaa 540
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 tcttttagcgt gggaggaggc gggcgtaa atctgcacct gagaggtgcc aaaatctagc 660
 ctagtaagaa gctcactaat ccaagtgtc aaacggctcc aagctcattc ctatttaata 720
 caccgccccg gggggtagaa ccccatggtg cggggggctg ttacaaactt ttatcactgc 780
 acaacggacg cgcagtcctt acgtatctag tatgagccgg tctataacac atccccagc 840
 aaccgcagct caaaggtaca cgcttctcgg cactcttta ggcccaggga tacatatcgc 900
 ggcgcgtaaa tcaagcgtcc aagtataacc cgcagacct cagcgaagg catctttatc 960
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<210> 6508
 <211> 983
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6508

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 tgtacctacc cananncana anacaaaaca annaactcgc ggacgccaac cctcacaaa 180
 cacacaacgg actctgtaaa ggtccacac ggcgcttcgg ggaatagaca atcctccgac 240
 atggaaaacc aaacaacacc ccccgggcga agcggcccaa aaccacattc aactcaacgc 300
 caatcctccg cttaacctca aaaaaaaca aacaatcccc accggaacgc ccgaaaccgg 360
 actaaccaac aaaccgcgg gaaaaaaaaa taccgaaccg acgggagagg ccgaaacca 420
 ccgcgaaaaa caaaaaagag ggacacaata cacatcacca taacaaagac accctttaga 480
 aaaatcaaac cggaaatcaa tccggacgcc aacttaggg aaaaccccaa ccaaagcaa 540
 atggacacaa ccaaaggcga aacaaaagcc aaaaacaaat cgccaagca aggccgcca 600
 ccaaaaaaag gctttcgaaa gtcgacacct aaaagtcacc accaaaagaa agggatcact 660
 catctaagcg cccacacct acaagagca ccccttaag taaaaagca atcactccga 720
 gaacccaaac caccgcagcg ccgcaccatc ccacgcgcaa caccgaaacc gcgacacaaa 780
 aaagtcggga cagagcccc cctcccaaag acaccacgtg aggcaatcat ccccgacag 840

catcagcgcc cagcacaac caacaacgcc accaccaac agtaccgacc gagcgggtcca 900
 cacagaaccc tacacaccag ctacagaaca ccttgacca aacacaccac cggccgacca 960
 gacagcgaag acgcaggaag ccg 983

<210> 6509
 <211> 1398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6509

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 gattgtanan cccagctang atctcatctc ccancactta cncgcgagag gnancccata 240
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 agacgggaac actcttatta tacgctctgg gccggtatt cacatgaggg acacaaacag 360
 ctgggtgtcc cctcgggtgcg agaaaacatt ggntaatatc cggcctcaac acatattccc 420
 accaccaaac attacacgag accgggaaag cataaaaagt ggcaacaggc ccggggcggg 480
 gccctaaacg gaggtgaagc ccaaacttca caatttatat ttgcggttg gcgcctcacc 540
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 gtgacgtgcg cacggccg 1398

<210> 6510
 <211> 1451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6510

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 gttgtagttg ttataaagag acgcanactg agagaagaga ggaggagaga gaaaggggga 240
 ctacgaagaa caaccgacgg cataaaacag accaaaaggc ggaggaagca gaagggcaga 300
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 ggagagggag agaaagaagg gggaggcaaa gaatgaaaag ggagggacga agagaagaga 420
 ggcaaagagg aaggagagaa cggaagagtg aaaaaataa aagaaaagga gggaaggaga 480
 cagggaagca gaaggagaaa gggaaggaag acggacgaaa tcagaagaac agagaagcga 540
 gagacaaacc gaagaagtgc tgacagtaga gagaagaaga aggatcacgg agaagaagaa 600
 gagagaaagg gagaggaagc aggacaagag gagagcgaga agaaaggagg aggagagaca 660
 acgacgagag gagagaagag gagatacgac agtgctagga ngactgaaca cgagaatgag 720
 ggagagagga cggagaagag gcgaacgaga acaggagaga cgagacgaga gggcgacgag 780
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 aaggcatgta cgcgcgacat agacgagtag aggcacgatg ngcangggag anagacgagg 1020
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 acatagaaga ngagggatgg cggangaacg angagctaca ngaacgtaag gcgtaggaga 1260
 cgaaacgagg tacgagacga ggaaggcagg gaacgagtca agacacgagc acangangcg 1320
 gagactggac gggagacgga cagagagacg agcgtatata cgtaaggagt agaacgagac 1380
 aggtagacac agagaggaga gcgagnagat gacagcgcac gcgagacgtg aggggcgtga 1440
 ggcgcgtaga a 1451

<210> 6511
 <211> 560
 <212> DNA
 <213> Glycine max

<400> 6511
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 taaaatttgg agaataattat aaaaaattta taaatcacia atattatatt acaaaaatta 180
 taatgaccaa aaaattagcc gtgaggaaat ccactatggg gattcctccc ttgcgtggta 240
 acaaattttt ttggagctaa atgaccagct taaaaaatcg gtaagaaata tgttttctaa 300
 cctcaataag gggtggggga aaccatccga tccttcaggt ggcagggggc caacaaaaaa 360
 tgggaggtgg cactactaagt gggaaaaagg ggggtaccaa ataaccgaat gaaccttaaa 420
 ctggccttta agtactttta tttggctcgg cgcttgaat aattatgggt gggccggggg 480
 tatattgggt cctaaccata actggttcat gggccctta caaaccttt caaactttta 540
 agcaaacata ccccttctta 560

<210> 6512
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 6512
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 ttaagcgggt tagagaaata cttatttttt tattaacttt cttaaagaat ttttaaaaca 120

aaggtataac cagcatggat taagttaatt caaccctgtc tgtaataacg cggaaaaaat 180
tta 183

<210> 6513
<211> 263
<212> DNA
<213> Glycine max

<400> 6513

aacttattct actttacaaa atcgagggtc aattcttgaa gaaagtataa agaccacctc 60
tctgatatta ccaatttgat aattgagaac aaaggctcaa gattcttcaa tgtactctaa 120
aatttttttg ctaaaccaac aaaaactcag attaactacc aaagccaact attgaatttg 180
ttaaaaaaaaa aaaagaaacc tcctctcaac cttgcatttt gtactggaag aaaacaaatt 240
aaaatccgct atgaaaaaaaa aaa 263

<210> 6514
<211> 533
<212> DNA
<213> Glycine max

<400> 6514

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tggtgttcca agaacacaca caccacatt ataagaggca ttccaaaagg gtttttagtat 120
ccttagaaat gccaaaactt gcccaaagtt aaatggttaa aacaaataaa caaatcacat 180
aatgggaagg ctattggcta gaagaaagac aacagaaaac caattggagg ggtgggtttt 240
cctttttcat ttttttatat gaaaaaata aattataata taaaaataaa ataatgaaa 300
cagaatctac agagaaaaaa ggtttgatag gcaacaactt aaacattcct tccacaaaac 360
aagggtggagt gaaactaact aaaatacctc aaactatctg aatcctcaag gtagatagac 420
gaagcaacca aggttacaag tgatttggac ttagatatct aaacccaaaa aacacctact 480
ttgcaatagc ctgaaatatg ccatgggttac attttgttgg gaaagtaatg agg 533

<210> 6515
<211> 516
<212> DNA
<213> Glycine max

<400> 6515

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agacctccaa tcattaatgg agaggggttac cactactgga aaacccgaat gcaaattttt 120
attgaggcaa tagacctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagttacaat agatggcagt tcatcaagt aaagtataac aattgaaaaa 240
cctggagata aatgggtctga agaggataga aaacgagtag aatacaattt aaaagccaaa 300
aacataataa catctgccct gggaatggat gaatatttca gtgtttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tctttgatta acacatgaag gaactacaga tgttaaaaga 420
tctaagataa atgcactaac tcataagtat gaactaatta gaatgaatgt caatgaaaat 480
attcaaagca tgcaaaagag atttacacat atagta 516

<210> 6516

<211> 1106

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6516

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ccgattattt taacgccatg aacacagacg tcncatagc aagagctgtg agtgaancat 120
gtttgaaacc gttgagataa cgcagaatgt aggaagcaac cttagaataa ggctattggg 180
ggaaaatagt acaaaaatgt tttattatat ttgcgaggaa gagcgagaaa cgcggggaata 240
gagaagtgga ggatgtgatt gtagagtgat attgtataga ggcacaagaa cgttggacaa 300
cggcgctcgag tgagattata gcgtcatcct aacagaagat gtcancaatg gataggcaca 360
atgcgcgagg cgaattgtgg acctgtggat catggataaa ggaaaggagc atagaggtgg 420
gaactatgat agttacatcc accacaggat aggtntgaat taaaaagaat ggagtttaga 480
aattgggagt agaaaaaaaa ggtctggggg gaaaaatatg gggcaacgta tataatagtg 540
gtggataaag cacaaaagca aggattgttt ccttaccagg ttagggggaa ataggtataa 600
aggggataaa cataagagat agaaggatgg aaaggggttt tactaaatat tgggggggtg 660
tggtgcagat aagaaattaa gggagtggag tttaaattta cctcaaaaag aaaataaatt 720

gagtgtggag aaaaataaca attatcgagc tgatgtttaa agttcaaaca actggaaggg 780
ggaggaaaac agggttaatg tatactggaa gaatgaaaat tgagaaatgg gaaataaaat 840
taaaacagaa ctccagtcac tgctttgaag aatgatatag gaacttggga ggggagaact 900
aggataaagg gattacttgg gacgccaag aggaaaaaat ttgggttgcc caagggaaag 960
ttaaggatta tataaggaca agaaaaacaa cggcattaga gaaaggggaa atgggttaaa 1020
aactacatct aggtgtgttc aagtatgggt cggtaatat agtagaaatg aaacggcaaa 1080
tattgtcgtg atgggtagaa ttttgg 1106

<210> 6517
<211> 487
<212> DNA
<213> Glycine max

<400> 6517

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ttcgaatddd tgaagcacat tgtdttcaaa tttcaacagt gttggagatt ggataatgtg 120
tgtacttgac tactacttgt gctatggttt atgggttttc tttgcatttt tcttttcaaa 180
agaaaatgta gccaatgaaa agattccttag tgcataataa ttgtaataata ttttctttta 240
ttgaatatta taatttggaa ggtcaaagt tagatgataa cttcttggag tttgtatttt 300
gatagcctag tcattttacca ggacttggga aatgttctag atgggtggcct tgggtcttcta 360
tgcattttgg gccttggaaa caatgatacc agcccccaat attatcatta aaaaattatt 420
gacctcaatt ttctcaagaa ccccattdaa aagctagtgt tttctacaca attttctcga 480
aaaattt 487

<210> 6518
<211> 940
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6518

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accatacaat cgactnttcc cccnccccca cgccttggan atganatcga ttggcgggtac 120
cgggaccttt aaagtccaac tgggagcatg caagcttcaa gaggtaaacc gtcgaggggc 180

tcaaaatatt attaaaacga aaccttctta ggagtaaaag gttagaaaca ttttagtccc 240
 agaaaggaga accgtcaagc agatgtaaac cgggaaaaaa agaaagtgga cgaagagggg 300
 atcccaagaa aaaaaaaggg caaattaaaa aaaggagggg gcggggccag caaaaggaac 360
 aagtctgcaa agtgggagcag tggcggtttg gggcaatcca tgaaaccaag gactaggagg 420
 gagaaacact ataataacaa ttaaaccaaa acatatcaaa aaacaaaggc ggctagagat 480
 aacaaggaag cacctttgca tacaatacca gcgggagggc acagaagtaa tctacttaca 540
 tacaagaatt aaaaccggag gaagaatcag ggagtccagc cactgatacc ataggaacta 600
 ggccaaagaa tagaaagacc ggaaaaaaa agagtggacg atagatttga aaaatgagac 660
 ggctgaactg gaatcgggaa gatcacagca cgactagacg gagcgaaaaa acaatacaag 720
 ggagcggggg gaacacgaat aatcaatagg gaaccgaagg ggcatcaatg aaatgaataa 780
 gtgaacacct aaccagaaga cagaacgaag tcatcaggct gtgatagacg ggcataatga 840
 tgagaacaac cgcgagccg aaacaacgtg gtacaacggc agcgagcga atacggtaca 900
 tgaaaaatgc gaacatgcaa atctccaacg catgataacg 940

<210> 6519
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 6519

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 cgcttaccaa aaactgcata ccaagaatat atactttgtg aaacatgtca gaaggggaaa 120
 aaaattcaac cttattttca aacaaaaaat ttgtttccac ctcaagacca ctggtaactc 180
 gttggccaat gtacaaaaat ctcaagaagta agaaagttct cggaagtctg aatgtccaat 240
 ccacagggac tttgttttga cttaaaataa tgccaacca attttaaacc cagagaaaag 300
 aattttaaatt aacagattat gaa 323

<210> 6520
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 6520

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 gaagagaata attttagaag cttcgcaa at ccagtttgga ttacaggtca tgcccaactgt 120
 tcacgtaaaa taaaattcgg tttctggaaa tttgtttctg cttcaaacta caatagtgtt 180
 ttctgctgat taatggaagg ctaagtctcc agcgcggttt tctattgaag agcacagctc 240
 tctttgaagt ttcgctatta ctattgaata ctgatcagtt attcctcttc accaaatact 300
 ctgaatttgg cgctaataat cgatgcatgc ttaaagcttg attaatagac tctgagccta 360
 aattacattc atgcttaatg atcaagttcg tacatgagaa ataggggaat atgtagctta 420
 accacaaaaa gaaaagccta tgtccatttt cgcttaata 459

<210> 6521
 <211> 482
 <212> DNA
 <213> Glycine max

<400> 6521

agcttatgcg catatttccc tacgaacgtt cacttgcaca agacatccta ttaactaaga 60
 aaaatgcacc catatacaat caaggtagct tcattaccta gattatttac atgtacttcc 120
 aaggtgtatt tgttatttac atcacacacg cctccttggc taaatttaca tacatgcata 180
 ctcaaagcat ttcgggggtac caaaaattgc acatgcgctc atcttggtat ttctaatacc 240
 tatacatata caaacttcat gatgaatctt gactacctac gcaataaggt gctacatttc 300
 atgctctttt tttttttttt ttttttgagg ggaatattaa ccatgtcccc tcccttctca 360
 tggattagca tcttgcctaa cttgaactta cttagggttag aattagggct tggatactta 420
 tttttttact tttttaaaca aacaaaaagt aaaagaaagc tgcaaaatac aaaagatacg 480
 gg 482

<210> 6522
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6522

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atggggcaga gacctttgct ggatgggtgc cgaatggagg ggtttccggc atagccaaaa 120
agcttggatg gtgctaggca tattgatgaa tattgtgagg tgttgattgg ggttttggcc 180
aagcaggaac cgaggtcacg gcatgagcat ccctttcttt tctttttgcc ccggccattc 240
tgaatctttt gttgcttgtg ctggcagggg cgacatantc gaacttcctt attttaggcc 300
tatctcgatc cctctacc 318

<210> 6523
<211> 451
<212> DNA
<213> Glycine max

<400> 6523

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tttaaagata ttagttaaga aattaaaaga aaaaagtatt tattatataa ttataagaat 120
attaaaaaaa tcattaataa tgtaatttta tgtattttga taaaaaaaat taatttttta 180
attaatatat taacagcact cggtagtatt tgtatttttt atttattaat ttttcgttta 240
aatataatit taatccttaa ttcttgtaac ataattacac ttttacttta aattttttat 300
tttttatttt tgaaaaatit tatattcaac ttttttattt ttgatgaatt ttatccttaa 360
atcttttttg gaaaaattta tttcacactt ttgtgttctt taatagataa atgatgaata 420
aattcttaaa tttcttaaga gaacatttat t 451

<210> 6524
<211> 521
<212> DNA
<213> Glycine max

<400> 6524

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atcatttgga tttgcgggta caaaggacaa gctgctgtc acgacccaaa gggtgataaa 120
ttttcacttt cattgttatt ttacattaaa cattcattcc tttcttcatt ttccagaatt 180
ggtatcggtg ctcathtagt aataaatact tcaattgggt tattacttgt tttgtttcta 240
ggttactgtt tacaagcagc gagcaagtcg gctagcttcc cttacaagc gcttggtcgg 300
tattaaattg ggtgatttct ggtaatgtga ttgaattttg aatgggtgac gttcttacct 360

atcagttatt cagttttttg gggaatgata gctataaatg tactattgtc cagttttgtt 420
aaggaaggac tttgtcttgg ccagctcttg ggaaatcgat ttacaatcac attgcggtga 480
ggactttatc tttgcatgaa attcaatttc ctatgtgaaa c 521

<210> 6525
<211> 384
<212> DNA
<213> Glycine max

<400> 6525

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tggttttttt ttttgcacaa tgactaactc ttaatcgact tacagataaa tatacaatct 120
caacacttag tcttttctct caagagggtt aaagagcttt gagggctttt tcaaactata 180
caaaaattta caaagagctt tttacataaa gaatttgaat aataatgtgt aggtttgtat 240
ctcattcctt taaatgacaa gtgtatccta cgccttagta atattggact aaaagtttga 300
atattatacc cttaaagacca ttcttgctaa acttgtctct ctcaacaaag actatttga 360
tatataaaga ggaaacaaat tgtc 384

<210> 6526
<211> 445
<212> DNA
<213> Glycine max

<400> 6526

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agccaagctt gaacttcaag tgttcaactt ggctagatag acttgtttgc acctttactg 120
ataaatgact aatcagaaaa ttaaattcac atagaggaat acaatcatta tactaatgta 180
taggtgacag acacacctta cttttgcatt taaccttgta gactgcctct ctgaatgatg 240
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agctgtgaaa tatagagggtg agaataagaa cagaaccaac ctgtgcatga tgaagatctg 360
gctcaatgtg tttcctaaat aatggaaaaa tgctatcaat aaggtaatcc agtgaacaag 420
aatctccaat gtcatagcga acttt 445

<210> 6527

<211> 626
 <212> DNA
 <213> Glycine max

<400> 6527

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 tacaatttca gttcacactt ttagttttat caataaaatt tcgttctcta tttgattaat 180
 ggaaggctaa gtccgcagcg ttgttttctc ttgaggatca agcacagtgc tctttgaggt 240
 tctattatta ctgttaaatt ttgttcagtt tttcctcttc actaattact ctgaatttgt 300
 tgctattaat tcatgcatgc ttagtgcttg attaattgtc tctgcgctta atttacgttc 360
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 tttatggtaa attcccccta gtaatttaat ttaagggtag gattaagggg ttaaactgat 480
 aagggataaa atttctccac ctacgataag aaacttgctt gtgaatcaag gggaaccaac 540
 ctattttaat tccgataaat ttctaaatca attttcctcg ctgggtaaat taaccaaagc 600
 aaccaacccc cccccccccc cccctt 626

<210> 6528
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 6528

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 ctccaaatgc cctgaaattc aaggctaaaa ccctatacta ctatggcacc cttaacttgt 120
 acccttaatt tgtatgggtc cctacaaacc tattctaata tttgccaaga ataagtggac 180
 ccaaccttgg cccatgggct cagaaatcta ttctcacgtt catgacaacc ctaggacctt 240
 ctttatcagc tctcacccaa ttctcttggg gactcttgcg tatggctctg gtgactgccc 300
 ccttactatg gaggatagta tcatccctt 329

<210> 6529
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6529

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tagtttgtca gattgattat gaaggaatgc attgaccata tcccggtagag agtgtgatcc  120
ttaaatTTTA agagaaacga ctatcattta atactaattt ttgcatgaat ctttgaagta  180
tggttggaat gcatgaaatt gaggatgacg aaggccatgt ttgattgtga tagccactta  240
gccaaaaagc tgaccacgtg cttgaatgaa ttatcccttg ctcccaattt gagttgaatg  300
aattattgat tgattgaacc ctgagcctat acaatgttat atcctgctac cttggattan  360
gttgtaggag agcctcatcc acaggaaatg tggttcaaag caaatttgtc cccaatttgg  420
gggagtaatt attcaagtaa aattgtccca aatttggggg aagcactggg taaaaattga  480
aat                                                                    483
  
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<210> 6530
 <211> 495
 <212> DNA
 <213> Glycine max

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<400> 6530
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tgtgtgattt ttcttatTTT ttttcttgaa tccaaaatcg cttgggttctt tttttataat  180
tttgggtccag atgtctagaa aattcaataa aaatttcagc tcaaaacatg tagtgaccaa  240
ttcccagtaa tttatacaag tttgtatggt caagttgccg gcaccagtga tttcaacctt  300
gaaatcaaga gtagtgTTTA tggttgctta ggcttgata gttacaattt gtgtttgctt  360
atgtcaatt atcttgaata acacaattca agagagctta agacttattt gattcacaaa  420
tccagacact acttagcacc acaactcaac ttcattatag gcatcatgta ggaaaacttg  480
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<210> 6531
 <211> 489
 <212> DNA
 <213> Glycine max

<400> 6531

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 ggaaaaaccc atgctatgac taccattcct atacagccca gtttaccacc aaccaacaa 180
 tgtccttact caaccataa caaactttct tcttccccac caccaatta tccataaagg 240
 ccatccctaa atcaaccaca aagcctgtct accacacaac caatgctaaa caccaccttt 300
 aacacgaacc aaaacaccaa ccaaaaagga attttgcaac aaaaagcctg taggattcac 360
 cccaaattcc ggtgtcatat gctaaacttg ctctcatatc tactcgataa ttcaatggta 420
 gccataaccc ctgctaggtt tcctcaacct tcatttttct gaggatacga cttgaacgca 480
 acatgtgca 489

<210> 6532
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6532

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 caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240
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 agtccggcac cttgaacttg ggaatgacca tgtttgggta 460

<210> 6533
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 6533

agctttgagc taattcaaac gacaataatg ttttgctcgg atgcccgact gagaccgta 60

<210> 6536
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6536

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 atctatatat atatatatca agcaataaat actaccagag gtactacagg atagcacacg 180
 agagaagaac tccttaaatt gagaacaaaa aacagaaatt catttgccca caaaaaccac 240
 cagaaacctg accttacaga acacactcta attaaaagcc atagacatag ctgaggacca 300
 ttgatgaaaa gggaccatta aagtcctttt cccgcccccc tcagccagga cgaagtgaaa 360
 aaatttggtg tttccacca ccttagagat gtgaaaaggt tgattatgaa aagaagatat 420
 tcattggcgg aacctttcat atttgacc 448

<210> 6537
 <211> 968
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6537

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 taccaaagga ctaccacgga caaagccttt tataaccca aggaaccttg gggaacaatc 180
 cacggattga aactcactac aacacctaag tgaaaaatca tgataaaaac caagtcacgt 240
 aaggagataa aggagctttc ggaacccgac atgggaaaag agcgaggagg gatttaagtc 300
 ccataggaca acatagactc ggcggggtat gcataaacga cgcattgttg ggcctataca 360
 tgaaagcaca ttgcacaatc ggcacaaatg gcaggacaat gctgaaccga aaacggctaa 420
 ctattcaaag ggcaagggca accagaaaaa aaaacacaca aaccttcgaa aaaaaaaaaag 480
 gaaaaaggaa ccgaaccctg gaaaaaccag tcacaggtcg aagggaata aacaccttaa 540
 ggggcgccac aaaggaaaaa aggaccacg ggagcaaaca cccacggtg aaaaactgcc 600

aaactaaaac aaccaagaaa aggcggaaat taaagaaggc accgaagaca ccacatgata 660
agccctattc cattcgggga gtaaagacga cataaggccc agatcatcag caaaccttgg 720
gccgctggga caaactaaca cgctaaaaag aaccataaaa accctaacac gcccgagct 780
taaggggacg atgggcaaga taaaaaaact gaccacaaaa taggggagca agcgttctac 840
gggggcccac gagggcaaac agcaaccaa aaactcgaaa gaaaaaagggt agtaaccggg 900
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gacggaag 968

<210> 6538
<211> 526
<212> DNA
<213> Glycine max

<400> 6538

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aagttttgac aaagagaatg gagaaataga atcttgagat ccaccaagga ttctctacaa 180
tcaatagcac caacacacca taccagggc tccaatttgg gtactccaa ggaaaggaaa 240
aaagtaaaga aatggagcaa ggagatcaaa ggcggaatga ggagagctta cccactccat 300
ggcagtcaaa gaagctctaa ggaagaagac ataagccacc aaagacaaaa gagtaacttt 360
gagataaaga aggagataaa agggagaaga tgagagatgg aggaagcttt gcatgtttaa 420
agctttggaa aaatagaaat ttttgctaac tggacctcaa ctctctctaa atataccct 480
cactaaaata aaatacacat attttaagtc cttttctgtg aaaacc 526

<210> 6539
<211> 1462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6539

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atatgtatgt atancataca atatcgggca cngagagtga ngttgatgta cgttttcgcg 180
 attatcccag tgagaatnct caccttgata agcaatggca aggccttggc taaatcaa 240
 ataaacatat agacacgaag ttgagaaatg tgagagagta tcgtatcggt ttatatangc 300
 gcnagtgtga ctcgcactaa agagagggtga cgcggtcgtc gcacattggt gtcacaaaac 360
 gatttcgtn c tatctcgact atatctgact gttggaatat ctccactagg atatgagtga 420
 cgcgcctaca taagggtaca agacaatatg catcttataa cactgatacg gatataatcc 480
 ggtatacacc gtaccatcac gtcgcggggc cactgaaaag cgaagacctg agagggtatac 540
 agagcccctc ggtggagggtg agctgaagcc agagaccanc tctgcgattg ttatgcggat 600
 ggcagnttcg tctgctatca ccaaccaant ccgcggtctt tcgataagct cacatccata 660
 cggggatcga ggcgcggctt ttgtgccacg aggaactcgc acctccgttc ctagacattt 720
 agagggtagc ataacggaag ttataacatg gtaattctcc tcaagcgaca gaggaaaata 780
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 cgacggctgt gggacaaaaa caaaagggtg ggggcggtcg ctcacaaaca ttagacaaat 960
 accacgggag tgcaagggtg gagtcaaatt aggaatcacc acattgctaa ttgactcacc 1020
 agacgtaatc aatcacacaa cacactngtg gtagaatagt cacgttcgag gagttaacga 1080
 atacagtagg tagatacacg atatgtcaca atgttaatgc cgaacatatt gtgtatatcg 1140
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 atgacgatat tgcacatgg agatacggta aagacgtgcg taccacatga attatatata 1380
 gcagccttca ctgtacttaa ccaatatctc tcgttgctga tttacacgct cactatacga 1440
 tattacacct cactcatgca cg 1462

<210> 6540
 <211> 906
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6540

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 taaacgcccc cgtccnncnc ccccgnnatg aaccgtgacc ttccgggacc ccagagngan 120
 cggaggcagc caacaccata ctggaacata caaccggcaa acatattttt tatgggggaa 180
 atcacggagg gcttcaaacc cccacaggaa agaaataaca gaaaatatct taaggtcata 240
 aactgcccc aattctccta acaaaaaatg aaatcaatca tggagtgtt aagaactgaa 300
 aactaactag aacctcacct aaacatttat ggtaaatagc tcttttacta cggcaacatt 360
 ctggcctaaa tattaccttg caggctacca ctgggaggga aaacaactat ctaagacata 420
 agctcggctt tgggctaact gctaagcaaa aaaaggaggc cctcagcaac aaaacgcccc 480
 aacatggacc atactggctg aacctgagac ggctctcccc cccaccggcc ctttaacatg 540
 aataccctga aaaaaacaca cctctgcagc cggaaaataa aaactcggct tcccccccg 600
 gacacaactg acaccaccgc acaggctcat ccacgtacg aaaccgccgg cacaccgcaa 660
 cgcaacacca ccccccaggg acacaccccc cacaccaaac accaaaagcc tcacccaaag 720
 ttattgttta aatttttaac ccccggtgggt agggaaacgag tttgtggttc ccccggtntt 780
 tttntttata aaaaaagaag acaagagaag accnnnnnnn tncccccca gaaggacata 840
 aagcctgtct nnnccnnnnt tttntttttt nnnacgcag gttcgcgcgc cccccccccc 900
 cgcagc 906

<210> 6541
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 6541

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 tggcatcatt tttttcatca ttgaggggcc aactgagctg ccaagttctc cacctttggg 120
 ggtattcttt gaaaagaccc gagccccctt tttgcacatg ttttgagtt ggatcctatc 180
 cgaagccatt ataccgacac tgccaaacga aggcaaccat tagggcctcc caagaatgga 240
 cctcaggaag gttccaagtt agtgtaccag ggaataacta ccccagaag actttcttgg 300
 aaagaatgga tcaacaattc cctatctttt gcggatgcc ctatcttttc gacaatacat 360
 ctttaagatg gggcttggg gccaaagtaat cccccttggg ctttggcaaa agccc 415

<210> 6542
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 6542

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tcacctgacg aagacactga caaaaactta tcttctcctt cttggacaaa atatggcagg 120
ctggggggcaa gtaaattttc ttcccatcat accttgatg caaatgtgat tgtataccca 180
tatcaggtag atcttgacgg gtattcaagc catccttcgt cttgccttga atgttaaaga 240
gcggtcccaac cactgtgtca caaacatttt tctccacatg cataacatca atacaatgtc 300
taacgtcaag atcacaccaa gtcggaagat caaagaaaaa ggacctcttc ttccatatgc 360
aactctgact tttatccttt ttttggggcc ttcc 394
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<210> 6543
 <211> 1759
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6543

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ntatgtagat gatgtcgtc gngcgtgcac tntacacaca gtagacgttg aangctcggt 180
gagatctctt ctgcagtgga caccgtggaa tacatttcta gatagatcga tcatctagca 240
tacgtatata ctaatantgc ctgatcaacg agacaatcac aacanacaca gatcgtctat 300
gtatcgatct ttctctcagg tatgcgcgcc aatggcacng accacacgac ctcaatgagc 360
gagacgtaca cacatctcgc tctctgactc atcttcgtga ggctctcaan cacaacacac 420
acatgatata tcgcgcgtgc gctatatatg acacgacaca actctcgcaa cgttgtacac 480
tgtcagtcgc tcatcaacgn gcggctgcaa ggagagatgt gngtgcgta acgttgctgg 540
gcccattagc atcggagacc aaggaataga gcgacctata ttagatatg cgctgtcggt 600
acgtctcaan cgcgtgagac aacatggccg cgaggcgaga agcgtgtgtc gtgtaaatta 660
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tggacactcg gcgcaacact cttattgtgg cgcggcggca atatatacat aggacgggag 720
taacatagta gtgatgagtc gacagacgag tacatccaca caaggcgctc acgnttaata 780
ncgttctgtg aaataggaca ataatctact cttaggtggc accatatgag gaggcgcaca 840
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cacgacnatt gtcgtataat gtcctgtac tcatatatgt atacgcgttt actatcacac 1680
acantgatgc atagtgcacg aacgtactga ngctaactca tattttatgcg tgcacccgcg 1740
cgtgtacgtc tacgtccgn 1759

<210> 6544
<211> 266
<212> DNA
<213> Glycine max
<400> 6544

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tggtagcttg agatatgtcg cgggggtcaa gagaccttgg ggacgtcagg tggggtgcta 120
ttgccccaaa ccaagcttga ccaatccgga cccaaccgag gcatagtcgg tcagtggaga 180
cctgtgatgt acctaaagcag gcgagctcct ggcagtcaac agattaaagg aaccaagacc 240

acctagcaag gaggcttgtg gtggct

266

<210> 6545
<211> 537
<212> DNA
<213> Glycine max

<400> 6545

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gcacgaaatt gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agatttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag 300
cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
tagatcacct ccttgagatg agaagctaga acttaactac acaccctta taatagctaa 420
gttcaccccc atgacaaaaa acatgaaaat accaaaaaat gtccttacta caaagactac 480
tcaaatgcc ccgaaataca aggctaaaac cctatactac tagaatggcc aaaatac 537

<210> 6546
<211> 1247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6546

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cgnnncncnn nactccacgc gcaattgaan ntctgtagat tcgaattggc atatgtgcac 180
cannccccac annnnnanaa cgccgnanac gaggggggcn agcgcgccga ggcgtaaaga 240
ccacgagcga aggcggccgc catgggcata ttattattgt tcgtagacaa gcagcgcaca 300
ggccgggaga cgcgcnccga cgagcgacgg acanaacaac cggaccggac aagacagcaa 360
tccactcggc gtcaaccagg aggcgagaaa gagagagcga aagggccgcg cggcgggcat 420
aggaatacaa tgccaggaac tcacagcgca cggaacgcga gggaacgcca caacggcgga 480
cgacggagaa cccgcagaaa gcgaaggag ggagacaagg acgggggggag atcaaagagc 540

ccgaacctac ggggatacgg cctaagaaag aggtaaaaga gaggggtggc caaacaagca 600
acgggtggac gaaagacgga ggatatacgc acgaaagcaa gaacaagaga aatagcagat 660
gggagaagac gcgacgagaa agcccacacc gagcacgcga gagaatacaa agaaacacaa 720
gggggcaggt gtcgctccaa gacgagcggc tacaaggagg acgaacacca ccgtagtagg 780
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ccagagaagg atgcgagaac cagcgagcgc gacacgagac gtagacg 1247

<210> 6547
<211> 347
<212> DNA
<213> Glycine max

<400> 6547
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acctgaacat gaactactac caatatataa atgttgttta catgaatgag cacatcttaa 180
aagcatactc cgcacagtgg gggcctcttg gaaatgaagc gggaattcct tcttctgatg 240
aggcatggac actaatccct gacccaactg caattcgtgc gaaaggctcg ccaaaatcaa 300
caaggataag gaatgagaag gattgctcgc aaccatctga acaccga 347

<210> 6548
<211> 382
<212> DNA
<213> Glycine max

<400> 6548
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atcaaaggac tttcacaacc tttgtgtgtt gccctcgctg gaaagaagga ttctttcctt 180
cctttcatct tcacccttgt tctttcaaac cacaattcca aaaaatccac ctctgcccaa 240
aattatctcg tggccataac tcccatttta cccactcaaa ttaagtgatt cttgagccta 300
aattgacttt caaaacgaga cctttcacct tgttttggaa tcacctcatt tggagccctg 360
taccttcagt tattgccatt tc 382

<210> 6549
<211> 463
<212> DNA
<213> Glycine max

<400> 6549

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gggctaagaa tgtttggcta gaaaatttgg agaccggtaa agaatggggc actttgtttt 180
aaaaacagta aaatatatct tcaaagtttt ttttatgatt ttaattataa atttaacaaa 240
tactacattg taattttggt ttcaaata cataatttca ggtcatgttt aatttaactc 300
aaattaattt caaagcatta atacaccctt tgcactatct tctttttcga agaaaaaaaa 360
taaaactagc tgtacgaaag agtgattagt gacagagaca tggtaacaaa aattggcaag 420
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<210> 6550
<211> 600
<212> DNA
<213> Glycine max

<400> 6550

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atacaatctc aacacttagt cttttctctc aaaatgttta aagtggtttg aaggcttttt 180
caaaactatac aaaaatttac aaagagcttt ttacataaag aatttgaata ataattgtga 240
ggtttgatc tcattccttt aaatgacaag tgtatcctac gccttagtaa tattggacta 300

aaagtttgaa tattataccc taaaaacccat tcttgctaaa cttgtctttc tcaacaaaaa 360
ctattgtata tataaagagg aaacaaattg tctctctcaa caaagactat tgtatatata 420
aagaggaaac aaatatatga aatgtgaaaa aaaaaaatgc agattgcaac cccttgtaca 480
ataaagaaag agtgccaaaa ttagaaagat cataaaccta taaaaaaagc gtattaatct 540
aacactaata ttaaaattaa ccatatattt gggagaaaaa attgattaat atatatttta 600

<210> 6551
<211> 589
<212> DNA
<213> Glycine max

<400> 6551

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aatggaagaa aactctccca acttcccttc ttctccaaga cacacgccct caaaagggtcc 120
tccaatgact gaatgggtccg ttcagtttgt ccatcaatct aaggatggta agctaaactt 180
aatctaagct tggttcccaa tgctctgttc aagctctccc aaaatctaga ggtgaatcta 240
ggatctctat cagatactat gctagatggc acaccatgta atctgacagc ctcacatata 300
tacaaggagg tcaacttctc caaggaaaat ctgatattaa tgggaatgaa gtgagcagac 360
tttgtcaatc tatcaacaat aaccagata gaatctaaac ctctaggggt tctaggtagt 420
cctaccacaa aatccatgga aatactgtcc cactttcact ggggtatctc taaaggttgt 480
aacttccttg aaagtctctg atgggtctatc ttagccttct gacagactag gcatgcatac 540
acaaactcac taactcttc ttttatgttg ggccaccaa acatcggtc 589

<210> 6552
<211> 1024
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6552

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acccatcaca agtcgcaacc tatacacnt cacnncnnnn nnnnnncgga tggaaccgag 120
gacactcgag aacccccaga gncnancngc aagcatggca gcnnnggagga acagcnaagg 180

aaaaccccaa accagctggg ttaagcataa gcacccaaan gggaactggg cgccaggccc 240
 aacacggtnt cccggataca aggccaaagc ccctcaaagg gtagggggat cccgaaagaa 300
 ggcgataag gcatggaaaa aaaaagycga gtctccacaa ggccccccgg aaaagagggg 360
 ccagaacaac aaaccaggt tggaaacca aaaaaagaa accatgcgca acccaaaaaa 420
 gggggggggg gaaaaacccc ccggaagtta agaccaaggg gacccacaa acacaaaaag 480
 cgcaccctc gagaccact aaagccggg aaaagaaaag ggaaaaacca caaacgcgc 540
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 acccaaaaat accacatccc cataggggccc ccaacacccg ctgaataaac aaaaagagg 660
 aactcgagg ggagaaaaac gcacagggcg cggaaaaaaa gaacagaagg agcaccgcc 720
 ggcaaacac aaaaaacccc ccccaaaaa ccagacccca caccaggaaa aaccacag 780
 gggcgacaca cccgtccac acaaagccgg agaaaatagc ccgccaacac aaagacgggg 840
 gaaacagaca acacaccgga gagacaagga cacacggcca cccacaaaa gaacgaccca 900
 cacaccaaca agacgcgaac cacacaggcg ccgaccacc cggcaactac acaccacca 960
 acgacaaaga cacaccgcag acacaacaga gaacagacac caccacgcac acacaccaa 1020
 acct 1024

<210> 6553
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 6553

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 gttttactcg gatgtccgat tcagtgcgt aatatattgg gatgctcgaa attgaatgtt 180
 gaacctctga gccaatcaa acgacaataa ctttttactc ggatgtctga ttgagttccc 240
 tcatatatcg agacgctcga aattgaattt tgaacctctg agccaattta aacgaaaata 300
 acgttttact cgaatgtctg attgagtccc cgaatatatt gaggacgctc gaaattgaat 360
 gttgaaactc tgagccaatt catacgacaa ttacttttta ctcggatgat tgat 414

<210> 6554

<211> 446
 <212> DNA
 <213> Glycine max

<400> 6554

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tgcctaactc aaattttgac caagaaaatc cctgaactcc attaccactt ttagaccttg 180
tcaaataaca ttaattgatg gcataatagc gacattgata atccaatgac ttgtcacatc 240
atcaaggagt ttggcgggat aatcacgtgt aattaatata aaaaaaaatt gtaaactgtg 300
tttttaatcc ctcatcaact agtctacgtc acatatctaa gtggtatgga aattcatgaa 360
actacacaca aagagtccag ttgggactaa attggatttg ttttcaaatt tagattcaaa 420
acacaattca atctgataaa aaaaaa 446
  
```

<210> 6555
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 6555

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tggtacctgg agatatgtcg cgggggtcaa gaaaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaaacttga ccaatcccg aaccaaccgg gcataatcgg tcagtgaaaa 180
cctgtgatgt acctaaacag gcgagctcct ggccgggaac aatttaaagg aacaaagacc 240
cccaagcaag gaggcttggt gtggctggcc accttgggaac tttgattgat atgtgggtta 300
tgg 303
  
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<210> 6556
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 6556

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tgctctaaaa ttacatttga tgtttgtatt tatgggagga agttatatgc catttttgct 60
ttaagagtaa tggccacta aaactaactt tccaaatgtt tgccttcgca ggaatggccc 120
  
```

cgaagaagct tgcctcaaag aggtccagga aggacaaggc ggccgaagga actaattccg 180
 ccccgagta cgacagtcac cgcttttagga gcgctgtaca ccagcagcgc ttcaaaacca 240
 tcaagggatg gtcggttttc cgggagcgac gccgccagct caaggaccac gaatatactg 300
 attttcaaga ggaaataagg cgccggcggg gggcaccact 340

<210> 6557
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 6557

aacgaatcta ttagttatattt aaaactgtaa tattaatgcc aggtcagaaa accacccttt 60
 atcttatttta attttcaacc ttttgttcgt gtcaaaagac taaaatatgt aatatgtaat 120
 gattatcaca tttaaagagg taatcaataa atagcaaatt caaacaaaaa ataaatagta 180
 ctaaaactta taattaaccc attatattac ttaagaaact aaattaataa taatcaaatt 240
 tagctttttt tggtatatca aaggacccaa ttaatccaa 279

<210> 6558
 <211> 1003
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6558

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 gagttcatng caattccaan cccgggatcc ctaaaaccaa ccggaggcctt gcaagctggg 180
 aagtggaaaa acaactcctt tgatcaaccg gaagaccccc ctgaaccctt gccttgccctg 240
 aacaaaattc ctttcagaa tcctcccaac cgctaaaccc cgtggagccc tccttaaagg 300
 aagacctctt gggtagccgg cattggagcc tcgccttaac cagaaaactt caccttttaa 360
 cactctttgt aaaaaaaacc cccctttttt ccccgtaaatt tggagaagaa aattgaccat 420
 taaatttcat accacaaggg ttctacctga gccccagaat aaaaaccag gccaaaattt 480
 attttcaact cccaccccaa agaaaaccta tattggcggg aaaaataaaa catttttgaa 540
 aaaaatatcc ttacaaaaa agttgtcgct ttagaaaacc taacaaaaca cccccaaaaa 600

ttacactgtt gctgggtcgc cccccccaa aaaagaacac cctctggtct ccagggagaa 660
 aaaaaacagc ggggggttct caagcggggt ggccgccccaa aaatcacccc cccgaaaaga 720
 atggcggaca agcctgcac acccctttct ccaaaaaaga cggtttctttt aaaaggcaac 780
 ctctctttct atggcgcgcc cccactcaa cctagccgaa cggggcggtg tcatacatgg 840
 cgggatcatc acacccccca catcacctg ccggatcacc acataactca tgccctcacc 900
 cactccctcg ccgctcacca ccctaccgat tctcacacaa ccagtgtctc gccactccct 960
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<210> 6559
 <211> 492
 <212> DNA
 <213> Glycine max

<400> 6559
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 cctgaaattt cgaagtccca ctcgtagcca cgcacttcac gactccaaaa acgccatcct 180
 ttcacgattt ggggaagaaa tgatggccaa aggttggagc tttgttggg tttcaatgga 240
 gaatggagga gaaggaaaaa gcaacgtgag gaagagggag agcttctgaa ttttctgctt 300
 tggctgagtg aggagagaga aaagcttttt ggttttaaat aaaaagggtt ttcccttttt 360
 ctattatttt attcaagctc tgccacatgt ccctatttga gtggagcaaa agggccact 420
 tttccttttt actgtgaccc acacctgccc cacaaagtga aaaaaatctg acctttgaaa 480
 ccctaaaatc ct 492

<210> 6560
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 6560
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 agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180

aataaccgga agtgcaacaa tagaaaaacc taaaacaaat tggactgagg aagaaaagaag 240
 attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gtatagatga 300
 atactttatg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360
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 actttttaag atgaaatgta atgaaaatat acaagacatg caaaagaggg tcacacacat 480
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<210> 6561
 <211> 1030
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6561

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 tgtccatccg ctatacacia ccccgggact gcaagaaagc aagcttatga aggcccttat 180
 gaaaaaaata ctattactgg tttcttttgc ttagaaagaa ctggacctgg cgttgcaact 240
 attattccta ttcccgaaca aatacaattc tttaccacg aggagggata ctcatagaag 300
 gaaactccct ctagggtaag gaaagttgag acaagttttt gcttggacac ttcaaccctt 360
 taccctatca agggggagaa atgggttctt tccgggatgg gcaactaacia tttcttgaa 420
 ccttgctgat ccaacgagac agaaaacttg acccgctaaa tttctcccag tgtgagatta 480
 gccttccttt tcccctctta agctttacct aagatcgaga cggcagtttt ttattctttt 540
 ccagaatgaa ggaaaaaacc ctacccccat aacaaaatca ttatttacca gaggttccg 600
 cttcacattt atgaaggttt gttgggggtt tacatctcac tggaccatat aaaggtatct 660
 ctttccact taaggagaaa ggcgaaaaac ccattattct tctaggggag atccaacttg 720
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 acataaagga aatccggaga atgtcttctt tcttctcagg agtttaattt tcacatagca 900
 ccttttggac acctcctgga ttaagggctc tgagggactt ttggccacgc tattcgttta 960

acggacaaca tgaaccacc ctttggccct attaaccccc acagaaggtc taagcctggg 1020
 agtgcctcca 1030

<210> 6562
 <211> 1768
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6562

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 tnnaccgtaa acgntnannt aaaanntccc ctanattatt anntacatca aatannntcc 180
 gnnncccgan nttgananta ncaaattacn ntncctcatn ntantannac gggcnaaaaa 240
 nnannntnn nnnannnnnn nnnnnnnnnn nnnaaatcag gannnnnatt aggtatntgn 300
 nancccnac ttttcgcca nngnnaann nccccnnncn naagnnnagn nnnncngna 360
 cnnncctagg anncagnggg gncnancctg ngccannang ggcncntnn tgggcnacan 420
 naacccccn ancannatag gggcncntnt ccacnnccna ncanntnann atatnaangn 480
 aaagcagga agnngactan aanattttct nntcntnata aatgcntnc ggcgtncnt 540
 ncncaactaa aatnataann aacccctgt cccctgcgc gtctgcctta ngaaaaatac 600
 gancntcaa ctnattaaac angaacaan anagcgtcnt ggtcgtctnt tccaacgag 660
 tgtncacca tncntctgga ngtaggcccc naaacnctc cgagnatggg ggtgcgacna 720
 caaaactatg gataggaaga aaaacctcat tagcttggct tctacacagg aaatnacaan 780
 tcaaaccnga aaacagaaaa gnangatctg tcntnntgtg tctttcttaa agaacatata 840
 cccatacggg aaaaggaaca acacaaagtc gggtnctctn tncctctggg cggtngaaa 900
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 aantncncc nacttttcta aaaaccaca angnagaatn gnntggcgtc ntcgggcacc 1020
 nntctcggg aaaatncnca tccatgccaa aaataggtgn taggcncct catcaaacag 1080
 aacnanatac cccnctntn ntntgggggg tngcgtctta taaaaataca cctccccaca 1140
 tntcntaacc aaaatacgtc acaagtggg gcggcctctn ttgggcgccc cccactatn 1200
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 aaaaagtttc agggatcatt tttcaacttc caggtattat aagtcacgat tcttggcaaa 1440
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 ttcaacatat ttccatgaga ttagaggaat caacctgac caccggatta tcaaccacac 1620
 gtttggggaa agcccaacca ggggtattca tacatccctt tgaacttgaa ggggtgaaat 1680
 aacagccacc ttttacttgg agtggaaggt ggagatccta ataaacaatt tccaaacca 1740
 aggcctcaa tggacgctc ccccgcc 1768

<210> 6563
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 6563
 ccaaacttat gaaaagattt gataatctta aacaccaagt ataatggtgt tataatggta 60
 cagtgatgca catttgtgat gcgtgggttg ggctattaat ttattggtgc tgagaatatt 120
 atattggtga ccagataatt atattaatta atgaatgtct tgagttgtgt tggttgattt 180
 cttgatgatg aaatg 195

<210> 6564
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 6564
 agcttttgag caaattaaat ggtcataact tcttactcgg aggtccgatt gaggcgcata 60
 atatattgag acgcttcaaa ttgaaaaatg gaagctcttg aaaaaatcaa atgggcataa 120
 cttgtgactt cggagtcgaa ttcaagccca taatatatcg agacgctcca aattgaacaa 180
 tggaagctct tgaacaattc aaatgggcat aacttttaac tcggaaggtc cgattgaggc 240
 gcataatata tcgaaacgcc tcaaattgaa caatggaagc ttttgagcta taaaatggt 300
 tattactttt cactcggaat tccgattcag gcacataata tatccaaacg ctccaaattg 360

aacaccggaa gctttttgaa caattcaaat ggtcataact tttta

404

<210> 6565
<211> 932
<212> DNA
<213> Glycine max

<400> 6565

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tctcctatta tgcaaccccg cccaccgtg atttgaatcc atccattcc caggcaccct 120
aaagacaacc gcagcctgcc agctttatgg ggaaaccaa gggaatcaa agtgtttttg 180
atgataccat gatggataca aaacattaat accaagggga tgaccaaacg ctcaaagaac 240
caatcaaaaa ccacttaagg gaaataaaga acaattcaag aaccacctca agggaatcaa 300
gaacaattca agaattcaag ataggaatca agaagaattc cagactcaag aaaaaattt 360
agaagtcaga atcaagattc aagggttaag aatctcaaaa tccagatcag attcaagact 420
caagattcaa aaatcaagag aaggcttaat caagaaagta taaaagtttt ttctcaaaaa 480
ttgagaacca catgattttt ttcaaaacaa gttaaccaa gaatttttac tctctgggaa 540
atccaatacc caaattgtgg caatcaataa caagctacaa aaatggtttt aaaaaagttt 600
tcaaatgac ttaccaccgt cccacataat ttcaaaaaac ttggatataa atttcaaggt 660
cttgctgctc atactactcc aagtacgttc aactgacatt aattttattg caatgatcct 720
tagctaataa ccctactact gatacccctc tacaaatact actcatcgta taacgtattc 780
taacctaccc ctcttcgtca gtaactcgca tcttacacat gcctctctac atcaacattc 840
cgacttctac tcagaccgca ctacaatcat cacaactcaa caccactcta ctattccata 900
tacagcccgt cattaacccc gtctacactc cg 932

<210> 6566
<211> 598
<212> DNA
<213> Glycine max

<400> 6566

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ggtgaaacat ttaaatcaat atcaccatcc ttgtgaaaag aaaataattg tatcacacaa 120

accaaaaata acatatcaaa aataaaaaagt tacttttgaa tccaaaaacg gacttcaatt 180
 ttaagcttat taactgcatac agctgattga ccaattaatt cactgcattc acgggtcccaa 240
 agcaggaatt ttgtgctttc atctccgtgg ttgaacatca cctcaagcct atacctgcta 300
 ccatatgtac caatagtgtgta aaaaatataa aggtatgaag aatacacaaac attttaaaag 360
 atcgcaatga cctaagcaca acttccttat tgtattttcc gcatgcacat gtgaagggcg 420
 ccatctctgg atcacttctt tttatgaaac tgaatgcaag ttgtataaca ccatgaatga 480
 ttgtccataa caatcatagt aattggggcca acagttacac aaacaatttc ttgggtgaaa 540
 caacatacac ttcaaatgct gaaaaaaact tggcttgggg aagggtaaag aattaaaa 598

<210> 6567
 <211> 556
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6567

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 gaatattggg gctcttatac caatattgag aaggaaataa taacattata ttctctaaca 120
 ccttttgaca cactttttta tttggtgaaa ttgatgtaag tctcactaaa tgagactcat 180
 ttcttatttg gcgcatctcc ttttaaacta gtggaattca aataaatttt aaccaatatac 240
 agaagagagt ctattagaaa gagaattata attatgttac acgaggctga agtgccttga 300
 atagcagact gataaaagac aagaaatttt gtttgcaggt acttactcct tcgtactcac 360
 tccaaggagg ctttccccgt gaacatttca ataattgtac aaccanact cccaatatta 420
 acagcgaaag ccaggtcaga gctgttatct ttttgacaaa ccgcttgaaa aagctgcatg 480
 tatgaggaat aagtgtctat agagaacgca tgagacatcg cggagttata gagttataaa 540
 ccttaataga tatacc 556

<210> 6568
 <211> 481
 <212> DNA
 <213> Glycine max

 <400> 6568

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attgaagtcc tagatgaaga tgatgatgaa cactttaccg taccaaaatt tggataaagc 120
acatgggcat gtaaacaatt gcctgaatca gtaggcagta ggttgacgag ttggatatgc 180
atactaagtg cagatgttaa tgaactcttc aatgtgcctg gtctagctga agctcaagac 240
catgaggact attgcatgaa tcttgtaatt gatgagctgt atatgcatac ttctcttagg 300
acagtaagta atgaagtatg ttaactagct tggggagttg ataaatatct cattttaaga 360
gctatgaatg gtttgatgtt tagaatatag cataaattaa aaccttaggg ggattaaatt 420
ttccttggtc tttgggatca tcaactgtta catcctataa gggctcacac cacacaacaa 480
t 481

<210> 6569
<211> 936
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6569

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tttgctagaa ataacatcgc ggaatataca gccacnaan acnncacgtg aacctgaatg 120
caatccttag cacaaccccc ggaacctata agtggacccg caagcatgcc aagctaacc 180
atagggacct tcccttcggg tgtatgaaaa aagatatgaa ctgggacact gtcaagtttt 240
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aatttaagtc ccaatgggct ctagaactca tttacagga aggatataac cttttttttt 360
cttttttagca gctatgcata ggtaccataa aaaatgatta cctgggtatg agcaacgacc 420
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gctacttttc tactaaaaag cttattttaa tcaggggtta aaacttggat aagttaaaca 540
aacttaaggc tcatatgaaa ttataattag cctaggaggg tattggatca ggatattaac 600
aagtttaatt gatttttttt agtcaattag agtttaaag aaataaaaaa atcctaagga 660
aatcaaaaat acttttaaat tttttaagag gtgcacaaaa aactaacatt aatgcagtaa 720
ggatcttaaa aaatttaaaa aaaaagcctt ttaaaagagg ggtgggggga acctgtgcgg 780
aagccacac ccctaaaagt ggaccccccg ccagcttaa agaacgccg gagaaaagta 840

cgacccgaac cgattccgta cggatacggg ggaaacactt cccacgcaga tagaaagtcc 900
acttcggtct cgatccccac acgggccgga taaccg 936

<210> 6570
<211> 435
<212> DNA
<213> Glycine max

<400> 6570

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cctcgggggtc aaactaatgc cggtcattgc tttttggttg ccaggggcaa tggatatttc 120
tttaattcag ggtaagaat attgattttc aacgcagaac aaggatactc cacactccct 180
ttttgttggt ccaaaccaat ttgtttgatt aagtgaactt gtaattttac cgagaaatgt 240
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tcagtaatga ataacagctt tgccaacgcc agctgggtac acccacattt ttctgcatgc 360
ttggatccgg tgactccgtt aaatacactc tgtacttgaa ttgaaataat tccttgggga 420
gaataccttt aaacc 435

<210> 6571
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6571

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tggagcctca attatattgt ctctgtgcga ggggcatttc tttctctaca aacattattt 120
tgcacatccc aacgggtggga atatgcggaa atgagttccg aatgtggtga ccaaattcta 180
tgatgctcca atggttaatg aatatgggat catactttta cttacacaag tttgggtgta 240
tgcattgtttt gggagaggaa gaagcgataa ctaanttgag aggaagaaag agcgcataga 300
cgtatccgat gtgtcaaaac tgacctaatg tgtccattta taactatgag accgagtcta 360
ctatatatnc tatctgttgc tataattaat tactncataa aaagagagct ctattatact 420
ctctatcaaa tacataaata taacatcctc ttatgttcta aaaacacat 469

<210> 6572
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6572

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 atttaactgt ctntgcgctt ggcggccccc ctcaacaaag tactttcgac acctactgta 120
 cgttgattta accaatgctg ttatgggaat gttgcgacaa tccttcaaaa ctttattgat 180
 acattctgag aggttggttg tcatgtggcc atatcgacgt ccttctctat cataagccat 240
 cgtccatttt tcctttgaaa ttcgatcaat ccatgtggct atggctggac tcagttcacg 300
 aaaaattttc taaatttgat caaaaatgtg cttgcaagga gtgtacgctg cataaaatta 360
 gttatgaata a 371

<210> 6573
 <211> 204
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6573

agcttcttac tccattntaa aaagctttct tctcattttc cactttttcc tgcggcattg 60
 tctcttggtc gtgggggtag caagggtgag tgcagcggcg aagggtgaagt ttccggcgctc 120
 aagctttgag gtggtcggcg ggcggcaaaca aggtacgcag atggcgtttg ttcgctcgcg 180
 acgtacggat ggcttccgga tcaa 204

<210> 6574
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6574

agctagagtt gtgtttgtga tctttgaaac tctcttgatc attgcaagag tttagagatc 60
 tcatgcttta ggtgaccctg acataaaggc actacgattt tttttgttgc cttaatgttt 120
 gttttttttt tggatattta agagtcaaaa tgggtgaaaa gtctttattg gtatatgaat 180

tattatatttg ctttcttgct ttctgcttat tctcttggtc ttgtttgcat aatttgatga 240
 actagatctc taatgtttta cgattaatga aactccaatt tcatgattta cattaaatta 300
 aaaacagctt gtacatgtga aacaatgaac ttgggttagct aatatctcta aatctcgcta 360
 ttttcatatt ntaagaggca cgagcttcag aacacttcca tagttttntt tttttttttg 420
 cttaccctac caaacaatga tg 442

<210> 6575
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 6575

agtcacctgc ggcattgcaag cttcttctcc aatattttat aaggactcag taacatggag 60
 agaagtatga caaatgctgc cagtgggtga gccttaggag acatgactcc tgctgaagcc 120
 agaaatttaa ttgagaagat ggcttccaac tcccagcaat ttagtgccaa aagtgatgtt 180
 attgtcatta gaggagtgc tgaagtaacc acaaattcat cttcatcagc cgagactaag 240
 aaacttgaag gtaaaactaaa tgccttggtt aacctggtaa cccaactggc cgtgaatcaa 300
 aaatctgcac ctgtcgacag actctatggt ttatgctcct ctgcctacca ccacacagac 360
 ctttgccctt ttgtgcaaca atctgaagca attcaacagc cttaaagctta tgctgcaaac 420
 atctacaata gacctcctca acctcagcag caaatcagc cacaacaaaa caattatgaa 480
 cctctcagca ata 493

<210> 6576
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6576

agcttgtcag aataacagta cgtgtgatgg tatattgaga ggcattggata agtatgcaga 60
 atatactgct gaggaaagaa aagaagaaaa ctatatatgc ataattattg tcttaaccaa 120
 aggcttttgg catcacaacc actggcatga taacttatgg tgattattac tatgagtcgc 180
 ccacgagggg atgacgaaat actaatcata ttagagcttt tcaattgctc tcaccatttc 240

aaattatcag ccacttttat ttcatagttt ttgttactnt aaaaaaataa tgatgacttc 300
actttaacag tttaactctc ttgataacga tatnttagtt aaaaaggact attttataat 360
agtaatcggg gttattaaaa atagttaact ctcatcttct ctgtagatgc ggggtttaatt 420
ctcct 425

<210> 6577
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6577

gacaagtggc ctcagatatc ttaagaagnn nggggnnggt gtcttnnncc tttggccncc 60
ctccttatct tcgccccctt tacacctact gtgccgtgat ttaaccaatg ctgctattgt 120
aatgttgca ccactcttaa cctctcttat tgataccttc ctcagagggt ggtagcacg 180
tgcccatctc aacctccctt tctattaata gccctcttca cttctcttcc tcatatcgaa 240
tactccttcc gtaactgggt ctactcaagt ctccaacatt ttctaaaacc ttgtaccaaa 300
ttctttctca cgggcttgct ctgcacataa tttattttct actaatgtct tcgtaccctt 360
tctctcaat gtcacttttc tttcccttaa ctattctgtc tctcatagac gcacccttgg 420
gtcttactca tacgccccg 439

<210> 6578
<211> 371
<212> DNA
<213> Glycine max
<400> 6578

agcgtctcgt tgcgaagtt cgagcgtctc gatatatcat gcgctttaaa cggacctgcg 60
agatgagagc tatgaccatt tgaatttctc gaaagcttgc ggcgttgaag ttcaagcgtc 120
tcgatatatt atgcagcgtg aatcggtatg acgcaggag aagttgggac catatggatt 180
tttagagtgc ttccgttggt caatatcgag cggctcgaga tattatgcgc ctgaatcgga 240
cctccgagat agaagtcag accatttgaa ttctcgaga tgtctcgttg ttcaatttag 300
agcgtctgga catattatgc acttgactcg gacctccgag tgaacagttt gaccatttga 360
atgctcaaga g 371

<210> 6579
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 6579

agctttaact cggaggtccg attcaagcgc atatatatat cgagacgctc gaaattaacc 60
 aacggaagct ctogagaaat tcacatggac ataactotta actcggaggt ccgattcatg 120
 cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaatgg 180
 tcataacttt gcacacggag gtctgattca ggcgcataat atatcgagac gctcaaaatt 240
 taacaacgga agctctcgag aaataccaat ggtcataact tttcactggg atgt 294

<210> 6580
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6580

agcttaacat gtagagattg gaacacatca tcgatagtat cccaacaggt atgtgttcgg 60
 ttctgcaagt taaggaggat gaagtataac ttctcaatgg ttcttttgaa naattgcatt 120
 tgcaggtgca aganagaaaa gtactaccta tataagcatg aagtttagcc gcttcaagaa 180
 gctgggactt ggctttgata tgcttatgaa ggatagggac acaggctagt aaaactatgt 240
 gtcgagcaag agtaatgcta taaactattg tgcagattat cttcatgtat tcattatgaa 300
 tagaaagggt tcaatcotta gtgacaccct gatattcgaa tatttgaaac gtgtaatttg 360
 ctaagatgaa attcaatcgt cacgatattt catctatgca gtagtttggt gtatgttatg 420
 actt 424

<210> 6581
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6581

agctntaagc ataagcaaac tgtagtcgt cttatacagc taactgtggt atagaaaact 60

nttacaaaat gtacatat tcccccaattt atgggttcttt ttgtaggatt gtaaataaat 120
 tttgtctcttt cttatctggg ctcatgtagac gccttggtgta tggaattaat gtcaatttca 180
 ggcaaaaagg agttattttg aagaagtgtt aaagttgatg tctcattaag cgagctcaat 240
 gcgcttagcg agtggttatcc gctaagttag gcatcagcgc gcttagcgaa taggaggaat 300
 ctggaaggga atatgtcacg caggcacgcg ctacgcgcgt cattagctcg ctacgcgagt 360
 cgtttgtcac cttccaggct tagcacgagt ttggcattga gcgaaaatca cttactca 418

<210> 6582
 <211> 229
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6582

atgaatccgt tgtacacagc gattacatca ganttctaataaatctattag ggatctactt 60
 taatgagaga tttgaatcct catatgggaa taatattgta gttgctgaat ctgcctacgg 120
 aatactgact accactatgt cttttctctt tcttttccat taagacatat gccacatcac 180
 ataaatctta gactagcttc gattctgata tattgcgacc atcacctac 229

<210> 6583
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6583

agcttcacat gaagctacat catttactcc ctatcaaataatgaataaaa acattctttt 60
 tattttctta gaaaatatat ttattttatt taccttaaaa ctattatttt aattaataaaa 120
 actatttctt cttatttatt taattacaac aacatcatta ttttctaaaa ctctatttat 180
 tttaaaataa aattcttttt aatttatttt acaaaaaatg aggtgttaca aagtatatct 240
 tagaaagact tttatggggg taattttaca cctctccttg gttctcgact ccatttgtga 300
 ctctatgctc tctttct 317

<210> 6584
 <211> 439

<223> unsure at all n locations
<400> 6586

agtcacctgc ngcatgagcgt cttacacaat ttatctttct caaacttgag tttcgaaagg 60
ccaagtatga agtcttttct aactagatga ttgagatgat gcatgtgtat gtgtgtagtc 120
ctatgatgtc acaaccaaga atcatctatc ttaattatca gacaactcat ctcatgagat 180
gatgaatgct caatgtttta catattgata ttacctattc tcttgccaat atggacaacc 240
tcaccggaca tagcttcact aataagacaa cgattcttac tgaattcaat tttgaagcct 300
tagtcacata gttgactaat gctcaggaag ttatgcttta gtccatccac atagaacatt 360
ctttatctgc gttgtgacta atttccaata tttccttctc ccattatctt tactttattg 420
gtgtctcctg tcacaaccta cccttcggcg ggagggcgac gcgagactca cgtgtgcat 479

<210> 6587
<211> 391
<212> DNA
<213> Glycine max
<400> 6587

catgcaagct tattcaaggt ctaaaacttt catagagcag ttcactcatg tcatgcaatc 60
aatattattc agatcaagat atcaagacaa acaaaatcta ctaaaatgtt caaaacgtag 120
ctaccataaa agcgctaaac caaaaccact gttaaaccac aaaccaacat aataaataaa 180
agttgtctga aaagagggag aattaaatga aatcctggtc aatcatcaat cttgtgctgg 240
tgtggggccat ggggtcccaa gccctgtgtg tgcggtgaca tctactacat aattagtgtc 300
catgcctgcc ttcgctgcac ctgtgtcctc ttcaacctct tgtgctggat actgagtctc 360
tggagtgtcc tcagcatcct gagcctgtgc a 391

<210> 6588
<211> 426
<212> DNA
<213> Glycine max
<400> 6588

agcttatcca aacatgtcct aagtgtaaat aatatgtcca gggaggtagg tcaagaacga 60
gctattcttc atggaggtga aatgtatttt accctacatc ataacagaga atcagtatcg 120
cagaatgtaa gcaagtattg aaaactcaca ttcccattac taacttctag agtgctggca 180

ttctccttca ccagccgtgt actagatctg ggatctctc tttcattgta aaaagttata 240
 ttaccatcta attctgtaac ctctcgtgat acctgatgtt gtggagggtt ccatgtattt 300
 acattaacag aaatattcac tatcttatga gatgtgttgg gtgatgctgc aagttgctcc 360
 tgttctcgat tccgcttttg gcgcacacta tcatcaacaa tttttgctac actatactgc 420
 accatc 426

<210> 6589
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6589

agcttttagat ngaacgttta aatgacaaan attacttctc ttcttgttct catagagttc 60
 caatatttta agattattat tccatttgtc aaatttggtg gagaatagag attagtttca 120
 gtgtggatac acgtgtagtc ttcacactat tgaagaaan ttttatgttt caaaaactca 180
 tcaacatgta tatatttagt atgttatctg tttcaatata atttagatgt aaaataaatc 240
 ttttttaacg cgctgtgtgt attttgaaca ctcttttttt cccttcgatt ggtatcaaag 300
 ccagggttctt ttgtattaaa attatattta tgaaactgtc acanagggtc atattntat 360
 tgctngcaca ttgaagcagt actcatgctg catagtgtgt catttggcat gaagcgttca 420
 agtgatttaa caaaagctat cgtacagtgg tgcttata 458

<210> 6590
 <211> 614
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6590

ctaccttata nctnctatca ctagcttcnc gcgnnntanc cngcgactcg ncgctaaant 60
 anntttntn nnnnnnaagt aannnnncga gtgttgaacc tganacanct aganaccgtg 120
 atcctctacg tcgacccgag gcatgcnagc ttatgatact tgataatgtt atcttactaa 180
 ttgtggntat ttgatttttg tattaatttc ttttataata aactcacccc tcgcaattat 240
 tgtaccgcgt ggctgggtact tatgatgac gcaaactttt attcgtggga gcacaatgac 300

agtagtagag tgcgagaagt gagattcttt tgttgagccg ccgagccgac gtgatgatgt 360
 tgggtattatt ttgggagaga gttgtgttat gttaatcaac tcctacatag ctagttccat 420
 aattattttg ttgaatcgag gaagtaaadc acacatttaa ttataagtat gaacaaattd 480
 actttacact atgtgaatga tgtgtgaggga gttactatac caagatatat atatatatat 540
 atatatatat atatatatat atatatatat atatatatat atatagatac atatatatgt 600
 atatttacat atcn 614

<210> 6591
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6591

agcttgctat tggaatcgcg aaagcttcac tccttcacatca ggattagtagc ctgacatccc 60
 aaacaaacaa atcaaacgta tcaagacaag tatatgtgct gtttgaatac ctcacccgct 120
 caagtgtatc acacactgat ggctttttctt taatgaaaca ctcttttcatt ttaccactct 180
 aattccccctc gagttcttag gcaatacaag agattatggg cacaccaaaag aacaattcac 240
 caatatgtgt aagggtttggc tagagagaca aggaaaagggt taaccaagaa aaggctaaca 300
 atgtgtttat gcacaaatga atgaaataaa attcacaagt tatgaattca agtaacaatc 360
 ctccatgcaa ccattatatt accttataga gatttttgnt aaagtttttc aagcatgaac 420
 ca 422

<210> 6592
 <211> 469
 <212> DNA
 <213> Glycine max
 <400> 6592

agcttagaca tgactataat ttactggcat ggtatgcata tggcctctga ggcattgtact 60
 ggacctggca tagataactt ccggctgcta aaatagcatt aggaatgaga gtgattgttt 120
 ctaataactct gatatgttga atcttaacct gcattctatt gaagttaaca agcacaagtt 180
 ctctttgaac agtgctgggc tgttctagaa atgcaaattgg gaaatatcag gagagcaaaa 240

gagttgtttg atgctgccac ggttgctgat aagaggcatg ttgctgcttg gcatggatgg 300
gcaaacttag aattaaagca aggaaatcta aagaaggcaa ggattctact tggtaaaggt 360
cttcaatatt gtggacagaa tgagtacata taccaaacac ttgcacggct tgaagctaga 420
gcacatacat atcagcatgc tcgatactta ttcaatcagg ccactaagt 469

<210> 6593
<211> 264
<212> DNA
<213> Glycine max

<400> 6593

gatctcaagt cacctgagca tgcaagcttt agtcgtgtgt gggtaatttg atcactctct 60
cactcttggt ctgaactatg tatatgtgct aataacaagg ctatgagcgg ctgagacaaa 120
aaatctccgc aactgtctat actccttcag ccatgacgct ctggatgtac atcaatcgggt 180
atcatcttta catgaacttg caaaaatcta gtgccgtatc agactcacia tcattcagat 240
gtacaatatc ttattattac caccg 264

<210> 6594
<211> 244
<212> DNA
<213> Glycine max

<400> 6594

agcttgtagg ccttgatct tcttcatcaa tggagtcctt tgcttcttga agatcaatga 60
caatggaatg gagaaggagg aaaggtgatt ggagactcca cttcaaggag aagataagtt 120
gagaacaagc tcaccaccat aggaagccat ggataagagc ttgaaggtaa gagaagatga 180
gtagagggag agaagaggga gaatgaggtc ttaactttga agtctaattt ctcaaactcat 240
caaa 244

<210> 6595
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6595

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anaagaattg aggggtgttt gctcactgac taactcttaa ttgtcttata gatagatatg 120
 aaatctaaac acttagtctt ttctctcaag atgtacaaag tgtttcgaga ttgtttcaaa 180
 cntacaaga atatacaaaa aaacttttta cataaagaat ttgaacgata gcacgcaaaa 240
 atgtgtctta ggtctttaaa gcttttggtta ttcataggc 279

<210> 6596
 <211> 204
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6596

agcttctata gttccctttt ttatataaaa aaagtgaag ctactttaat tttttttgtt 60
 tcggaggagg ggtggtggcg ccacatacct cnccgcggtc acgacaccct gtggacgcct 120
 agtggggtgc tactgcccac aaccatgctt gatcaattcc ggcctaacc aggcataatc 180
 agtcagtgag aacctgtgac gtac 204

<210> 6597
 <211> 259
 <212> DNA
 <213> Glycine max
 <400> 6597

agcttctccg gtcaatgtca gaccgtaccg ataccctcat tatcagaaac aagaaattga 60
 gaatcagggt gatggcatgt tgcagcgagg cttcatacaa ccaagcacia gcccgttttc 120
 ctcacccgtg ttgtttgtca agaagcacga taggtcttgg cgcttatgcg tcgactaccg 180
 tgctttaaat gctttgacgg cgcgatgatca gtttccaagt gcgactgtgg atgaactctt 240
 ggacgaatat gaggcgcca 259

<210> 6598
 <211> 75
 <212> DNA
 <213> Glycine max
 <400> 6598

tataatcaca taaggcttac tctcatattc aatcattggc ttgataaaag tgttccatgg 60

aggaatttga cgagt

75

<210> 6599
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6599

tcgagctata atcctttctg agtgactcat ggcaaccctg agtttactta aattattgtt 60
ctttacagaa tttctttntg aatacactta agcaaaactca taaatagtca taaactcaga 120
agacttatga tttatgttta gaaggtttgc cataattaaa acaccaagga atttgggggtc 180
aacaaaaacc tcttgtgcc tagcttagaa tcaagctcag tcttactaca ttgcactcat 240
gttcagaaat taaattccaa ttaacaagaa aagttatttt tttaaacaac aagcaataac 300
cactttgcat catttgaccc acacttaata gggtctgatc aa 342

<210> 6600
<211> 324
<212> DNA
<213> Glycine max

<400> 6600

agctttatat tttcttacgt gtaggtgact tctcatcatg aaatttatat gtgcaaaggt 60
tattagataa ttgaattgac taaaatcatt tgaagaaatt gattgaagct ttattcacat 120
tgtaattagg aaattcttta atgtctgaga cttcgttgaa atatgttttag gatataggta 180
tacatgtttt tcatgcaaat caatataagt atataatttt tgattcgtta tatacatatc 240
atatttatatt aatgatatgt ttgatattat tgggtattata tatatatata tatatatata 300
tatatatata tatatatgta tata 324

<210> 6601
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6601

agcttgaagt gagaaagcgt ggaagagtca gtcttcctac ttttatttgt tgaccaccac 60

agagtgggtac ctggagatat gtcgcggtgg tcaggagacc ttgnggacgt caggtggggt 120
gctattgccc aaaaccatgc ttgatcaatc ccggcccaac ccaggcataa tcagtcagtg 180
agaacctgtg acgtacctaa acaggcgagc tactggcagt caaccaataa aagaacaaaag 240
accacaaaagc aaggaggctt gtgtggtggc tggccagcta tggatcttaa gtggtatctg 300
gaatttgacc tctggtaatc attacc 326

<210> 6602
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6602

agctntagga gaaaccatta naactaaggt agttcctaaa caaaaatcaa ttgaggaagc 60
ttcgccgagt gtccccattg aaaaaccttt attcaaactt ttcaaagtta gtgataaggc 120
taaacgaaaa attaggggaac ttagaaaaac taaatcctta attgaaggcg taggtgacaa 180
tcatagcgaa ttactaaaca agattagtag tttgcttaag gtcattccag atactcccca 240
agcttcggaa aatacttcca aaatggtaac aagaagtacc tncaaattaa ttaatgttat 300
taatgaagat agtgaccaa acttagataa cacaactgag ataggatcag tgtcagaaaa 360
gaatataaat ccattaaact ccaaactg gaaagacccc tccaaattat attatcaacg 420
tncaactggc cc 432

<210> 6603
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6603

agctttctccc tatttntgct ataaataggg gatgaagtga agaagaaaag gggtcagccc 60
cttagacact tctctctctc tcgaaatagc tgaggaaaat tagttccgtg aagaaaatcc 120
aagccgaggc cgcttcgtaa cgttttcgtg agtaattacg cgaagattct cgaccgttct 180
tcaaggattc atcgnctggt cttcgttttc ttcagtcttc aatgggtaag tacctcaaac 240
caatcttttt aattcattct atgtaccggt ggtgggtccac atcttgtttc atgtattttt 300

attctcgctt tcatttactt tntatacccc ctnttggcgt gcttaagcca tttatctaag 360
tcattttctca cttaatctaa agataaaaat 389

<210> 6604
<211> 402
<212> DNA
<213> Glycine max

<400> 6604

agcttcacat ggagctatat caaagaagaa gtctatatca ccacatgatt caaaaagaga 60
cctcatatgt aagttactca tttataccaa tttaatgatg atcatgagga ccaaaacatt 120
tcattcacaa gattagtagg ctactcaaaa gtaggttatt gaagtgtgtt taaatgactc 180
gtgttcacaa gaaaaatatc agtagggaag accttaattt accatacaat ttgagaaggg 240
gaacaacttg tagaaaacat tatctgacaa gagattcata caaatttgga tcagtaaaga 300
ataaccctat cacctatcat ataccctttt ggcacaatca actcattacc cttctataga 360
tagcacgatc atgagaaaatt ctcaggataa gggatagtct at 402

<210> 6605
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6605

agctcgngaa catgtgtgtt taggtagaac atttatgaac taaaacccta aatgtgaccc 60
anacattaaa tcaattttta attgatttaa attaaaatca aaattaaaaa tttccctatt 120
gtcaatgaat aacaaactaa aattaaaaat aacaacgcat ttgttaagta tgactctgtc 180
acatcatcaa aatgtataga tggcaagaaa aacattggca tgagctacgc acgtgatcag 240
acaagtagaa acttaacgtt gcaagtgata gtaaggatga aaacaatgga cggaatacaa 300
gtttggggat gttgatgagt ctccatcaag ttttaaggacc aacaccaaaa atgttgaaca 360
gatagaggac taaacaaata attattccta ataataacaa cacaagtctc gatcctttta 420
cataacatat cttaccttaa acatatcttt tcacct 456

<210> 6606
<211> 498

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6606

atggatcnnn gnnattagac atgagccctg acncntggaa anccccgtac ttaagtgagc 60
cgagctgcaa gctttaatat gttattcatt cagcggacta tctaataaat tagacacata 120
gagaccatta ctacatatcc tatggcactg gaaaacagat gtcacctttc attctgcgtc 180
actgggccct ctactgcag tataatggct tagaccacca atatccaagc acgtatctca 240
cagcattttc aataacattt tggaactaca agccactcat atgattctaa caaagccgtt 300
atcgttatca cacagtgcac gaacttgctt attgctgtaa gcttatggaa tatattatct 360
ggattcttct cgtatcaact tttggacgga gacctatctt acatgaatga atgttataca 420
cgtgaagtga cccaccattt ttgatacgta gatgttgagt gataagcaga cactactaca 480
atatcattaa catatgcg 498

<210> 6607
<211> 205
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6607

agctttntcc aagttaataa aaaccatatg taagtctctn tctttgcttt ggtaactatc 60
catcaatccc tgttaaagat aaatgacttc tgttgtagac tttcttggtg taaaccaa 120
tgattctttg caattcttat ttcttatcta tgaccaatca cttgttctca taatttcata 180
gtgtggtaat taacgttgaa agtga 205

<210> 6608
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6608

agcttgatgg tgttgagaag aaatcacatg tttgtcatca tcaaaaaggg ggagaatgtg 60
aatgtatgta tacatgattn tgatgatgtc aaaagaagaa tcaaacaagg ctcatnttgt 120

ttaaagatta atacaagatt gtttcaacaa acaaagcctt gattcaagat ttcttcaaga 180
 tcaagccttg cctcacaatg aaaggtttca agtcattcaa ggcacatgta atcgattacc 240
 aatacatgta atcgattact aatgggttga aagtgtgtaa tcaattacac atcatatgta 300
 atcgattacc agagacaatg aacgttggga attcaaatnt taaatgaagg ttcacaattg 360
 ttcaagaaaa acaactgtgt aatcgattac actaattctg taatcgatta ctagagagga 420
 ttttcaagga atatcgccaa cagtcacatc ttatcatttg gat 463

<210> 6609
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6609

gcatgcaagc tntctgctca tagaacanna tttnttcttc ctctcttaat tctccaacat 60
 ctgaattcaa tttctcaaaa gtgtgcctaa attctctctt cagggcactg taagagtgtc 120
 tcagcctctc ttttaagctcc ccttgcttcc tactgttgta ttttggcata gaccaaattc 180
 gtccagtaac aacttcctct tctcttttca ctttgtattg gccaaagtagc ccactcaatt 240
 ggccatcata tgagcatttt tgctcccacg catcagcaat aaaatcagca gatcctggaa 300
 cttcaagatc tttatcatc ggtatatcgc cagtcacaaa gttcaaataag ggagcatcaa 360
 tatcttcac ataagcatct ttgatacgcc ggtaaagtct acccaggaat ttcttcgacc 420
 tgtaagactg gtgccgctct ttcccatga natcagggtta caattttggt ttcagatg 478

<210> 6610
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 6610

agcttgata ttctgtttgt ggtaggctgg aactatagtt cttacacaac catggcatga 60
 tttgactgc agaatagatg gacctgctgc atatgatgtt cttattaatt ttgagcagcg 120
 atggagaaaa gcaactaagt ggaaagagtt tgcgacccct ttcaaaaata tcctctcaat 180
 ggcatggcga tgctttaata agaatagaac gcatctgaaa ggataaattg gattattata 240
 ctactctagg ggatgaccct gtagtatggg tttctagtga agctgacccct gataatagca 300

tggttcaggat ggacaatgca atcttagttt tgagtgcgt cacttgcttg ctatatatttc 360
 ttgattgtgg agataaatac ttccattaca ttgtattcca acccttacag atcttacact 420
 ccgttgactc 430

<210> 6611
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6611

agcttgagat gaggaagtgt tgaagggtga aacttcctgc tnttatntgt gaccacagag 60
 tggtagctgg agatatgtcg cggnggtcaa gagaccttgn ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatccga cccaaccgg gcatagtcgg tcagtgcagaa 180
 catgtgacgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
 cacagagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tat 293

<210> 6612
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 6612
 agctgccttg tcccttgata tatttgaggg actcatgac actatgaatg acaaattcct 60
 tgggataaag gtagtggtgc catgttttca aagcccatat taaggcatat aactccttat 120
 cataagttga atagttaagg gtaggaccac ttaacttttc actaaaataa gcaattggat 180
 gaccttcttg catcaataca gcccgaatcc caacatttga agcatcacac taaatttcaa 240
 aagatttttg aaagtgttgc aacgcaagta tggcggaatt agttagcttt tgcttaagaa 300
 cattggaagc atcttcttgt ttctctcccc atttgaaacc aacatctttc ttgagcactt 360
 cattgagagg tgctgccaat gtgctaaaat ccttcacaaa tcgtctataa aaacttgcta 420
 agccatgaaa actcctcacc tcggtcacgg actt 454

<210> 6613
 <211> 463
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6613

agcttaggtt ntaggagagc attcatccat agataaacct tcactttttc attcattcac 60
atcccatact ttccttttag ttagacagtc agcttaattt cattattttg cagcatacac 120
acttactaat ttcatttgta cttacaattt cttttaaaca caatatatac agagatatca 180
tgtgtatgta cataaataat gtgtgtatgc tatttacttt gaccatttgc attcttacct 240
agtgcctccc ccaaatttgg aacaaattta ccttgataat tactccccta naattggggac 300
aaatatgttt tgaatcgcg cttctgtgga tgatgctctc ctacaaccta agtcaaggta 360
gcaggagata acattggata ggctcaaggg tcaatcaatc aataattcat tcaatcaata 420
attcattcaa ctcanatggg gtgcaaggga taattcatc aag 463

<210> 6614

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6614

cggattagcc ttgagntctg acnncttcga aaatccccca gangcggnag gatgaagctt 60
nttaataatc tttcatttgt tttgttatcc aagcccataa cattgtgact tatacttgat 120
atcatatatt ggcttatctt cttttctcat actgtatatt cctcctatct ctatattcat 180
atatatatat atatatatat atatatatat acatatatat atatatatat atatatatct 240
atataaacc cttttcggga aacaaaagat tgttcaaact acaagactat aattgggtgaa 300
gatgctactc cagcttatct atagaatcta aacctagata tatactggca actgatgccc 360
atatctttca catacaatat ttactaaaaa aagtaaaaaa ttagtggaga tgtggattat 420
taacactggg gcctcttcga attacagacg atatagatct gactctatag gcgcccatta 480
tcccaccttt atatatatat agtttgtgaa aaaggacn 518

<210> 6615

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 6615

agcttcgcta acttgtagat ttcccaacgt actcacggga aagcttacac aggctgacat 60
gcacacagaa ccacacatgc aatagacaaa gaanaacaga gaaaataatt aaaaagatgc 120
tatggcaata ttgcatgact ttgtatacaa ggcagatcag aaaattatgt agtttgaaca 180
agtataccaa tattggccct catagagtca tagtacaatt atgttgtcct tggcctttgg 240
gtatacaaca acttgatgaa agagaaacga aagaccattc cttcactaca tcgatcttct 300
caacttgitt ttattcatgc atgagttatg caattcctgt gaacattaag ttagagaata 360
ctgttattac atacatacat aaatacatag ctttgaatct ttcaaggaaa atttagtaaa 420
aagcataaca ccctaattt 439

<210> 6616
<211> 431
<212> DNA
<213> Glycine max

<400> 6616
agctatgata aatcaagggtg aatggacctc gttcattgac atattagcat tgggtggtgct 60
tgggaccata ctatacacia atgtagacgg gctagtggac ttagcagcga tcgaagcctt 120
tcttgcttga tcatcacaag caattgaaag ccagatcatc actatttttag ccgatgcata 180
tgatacgttc gacctgagat gcgagaagaa cagtgcacga attgtctgtt gcatgcctgc 240
tctctatgag tgggtgcact accacgttga tcgttacgaa cgtaggcctg tgacacatat 300
gtatggaatc gcgctgcgcg cggatgagggc tctcctacaa cctaagacac ggtagcatga 360
gattacattg catacgtca cgggtcactc aatcaataat tcatccaatc aataattcat 420
tcaactcaaa t 431

<210> 6617
<211> 131
<212> DNA
<213> Glycine max

<400> 6617
agcttgcatt atctatagtg actgctaaaa ctcttgtcgc tgtcatggcc gtaagcgtgt 60
cctgtatgac aatgggtcgc gcttactatt gcacacaact tacgagacgc gaacgtaatg 120

tggaagact g

131

<210> 6618
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6618

tcttaagtca cctgcangct gcagctntat agaactccnt taaaaaatca cttecggaatt 60
taagtttgat tatgcacacc atgctgataa aattntatatt aaaacaagtt catcagttta 120
tcttaaaaaa attaatatac aatgtaccgt tgaaaataga aacaattatc aaaagtctat 180
tttttctaatt ttggtgggta tggtaaacad aacactcatg attgaaaatt agatagatga 240
aaacatcatt ccatcatatt aatggtgcag gtatatcaaa tgttacacca attagaaaagc 300
attatgaata tgattagtaa atgtgtgatt atacatttaa attatattttt aacatcacaa 360
gtgactgctt cagaaatcag aattgatgat antttactag aaaacaaaaa ggaacttgag 420
acattattaa taactatcca gtgttattac aaaagcatat atgtttattat caatcaatta 480
cc 482

<210> 6619
<211> 462
<212> DNA
<213> Glycine max

<400> 6619

gcaagctttc tttctcaatc aatttgtcta ctgactaaca attctaattg caagttcaca 60
ttcttggtct ttctttgtct agcatgcata tttgttcaaa ctcatgaaaa gaaacacaaa 120
ctccatcaaa atcatgcact caattcaaaa tacagacata caccattttt cataaaaaaga 180
taaaagtgtt tccctgccat gtcataaaaa aacaagtcaa actgttcaaa atgcttttagg 240
atgagcaaac taattaccca taaataagat agcagtatat gtagacataa agaaaatact 300
gtacgaaaac caaaaattat aataataaat caagaagcaa aaagtatcat caagaatcaa 360
aattcctgtg actagtcttg tatatcctat gtttgaccat cctcctcatc tgtagctga 420
agaactggag taatgggagg agaagtgtcc acagcaagga ct 462

<210> 6620
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 6620

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agcttgttct gaactatagc tategaatgg ccaacatata ttgagatgct atgagcatgt 60
cgactacata gagtagtata tagatgtggg aaccatcctc caccttacta tgataaacac 120
atgagtcaca gggactttcg atgtcccatg agagacaatg aaatcattaa atctcttgta 180
ccactgcctt agtgagtgct tcaaccata aagagatctc tttaatctac agacataatt 240
ttcctttcct ttcacttaaa aaccttcagg ttgtagcatt agaatgtctt cctctagtct 300
tccatggaga gaggcagtta tgacatcgag ttgctctaac tccaagtcct tagttgccac 360
tagggccagc agaacacgta tgaagggtgtg ttgactacca gatgtgcttt ataacatacg 420
tgctgtataa aagatgactt cttcagtc 448
```

<210> 6621
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 6621

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gagctctcat agtcaatta cgagtgtatc gatatgtgag gctccatgat cggacctgcg 60
aaagaaaagt tatgaccatt agagtctctc gagagctaac ttggttcaat tccgtgcgct 120
gagagataag acgcgcctgt ctcggtcctt c 151
```

<210> 6622
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6622

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caagcttgtc gggggctcag caaatcttag tttcagagtc aatagattgt atatgcacat 60
tctgctcta aagcgacaaa accacatagc agagcctata acctatgcta tatactggct 120
acacaacttt gcattttcaa atgattaatt catgtcatca acatttcggt gcttatgctt 180
atgaaggggt gttactgtga ctttgagttg gtggattcga attttaaaca atcgatagcc 240
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atgtctttct tttcactttc cactctccag aaccaacatg ttcattgaaaa aggacttggt 300
tcatgtgcag ccaagactgt ctccagctct ntaattatcc aatattcaac ttcttttagct 360
agttctttct aattattttc ttctttcact ttctgtttct tcttttgatt ntcttggtg 420
gtaattaagg atgaagagca gaagagaata tatctcattt acaagagcaa acacata 477

<210> 6623
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6623

agctngtatt attcatcttt ttcattccct tctccctttg ccaaaaagaa ttcgccaagg 60
actaaccgcc tgaattcttt ttgtgtctct cttctccctt ttccaaaaga acgaaggact 120
aaccggctga attcttttgt gtctcccttc tcccttgatc aagaattcag aacgatacag 180
tctgagaatt cttttgatta ttccattcc cttatacaaa agtggttcaaa ggactaacca 240
cctgagaatt cttttgtatc cccattcagc aagtatcaaa ggtttaaacg gctgagatct 300
ttgtcataac acattggaag ggacatcctt tgtggtccaa gaaagagaca tctacttggt 360
ttgactgaga acaaagaggg acatctcttg gtgatagatc tagtggaggg acatccact 419

<210> 6624
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6624

agctttggct ctcaagaaga gatcaaccaa aggatggagt attaaatatg gatctcatat 60
gatccataat tccaagtctg atgtgggagg agntatgaag gtccatcatc atgacatgcc 120
tgtcatgttc ttggttcatt atacagacat acacccatga tcctagagag attagagtgt 180
ttccctgtca tgtcataaac aagcaaatca ttctgtgcat agagctctac gatgaacaaa 240
ctaattaccc attaataaca tctcattcta tgtagacatc tagagaatac ttgtcgaata 300
ccaacactta taatcttaaa tcacgacgct atttgtatca tcacgattca aacttctctg 360
gactagtccc gcatatccta tg 382

<210> 6625
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6625

agctntctta atatcttata atagtgtgga tgtacatgtc catatnttgt gaaagtagca 60
 tgaatggaac gatgtgccta tcaaactaga gtgtcaaata tgccatttaa tgagtgatga 120
 gtcacctctt cctttcttcc ttgggatgtg cttattaatt aacactatgt ctaatgtata 180
 ttatattgga ggcatatcaa atcatatgac atctcaagaa atgagaaaat ttaatcttat 240
 catgtgcaag attgaatggt attcgtcaaa ataatctctt ctcaattttt catatgtgtg 300
 tgtgagtgtg gaaagtatat caaataagag cttaatagga gctaataatt atcatataga 360
 aaaagtgaag ttaagattag atntaagtaa accaatttta attatccatg taagaatgca 420
 tgactaacat taactcctgt cacactagct agatatgtc cacatgta 468

<210> 6626
 <211> 109
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6626

tgcttgntca tatcgagatg gtgagtgggc attctcatTT gagtgtgatg gtgcaacata 60
 tttgtttgcc ctagctggaa ctccagtgtc tcacagctgt taatgatct 109

<210> 6627
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6627

gccagcggtt tggccttgag cgtganacgt gaactcaagc gacgagcatg agcttatctg 60
 ccctactatt ccctgtatgc cttgttctgt aatacagcat aggcttacag gacaagccaa 120
 ggtctaattg attagccatg gtgaattttg aatcctggaa tgtccctcct ttcttgaacc 180

<400> 6628

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<210>      6629
<211>      460
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      6629
```

2838

a

361

<210> 6632
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 6632

tgcggcatgc aagcttgtga attctatctt tccttttatt ttgtagtggt ntaaatttaa 60
 tcattacgtg tatcatctaa tagtgtactg atatattatt taatatatta aatttataaa 120
 aaaatatttt aattttttat attttaaaaa ttttcatttt gatataattac gttttttaa 180
 ttttatttta gtatttttat attctaaaaa atttcatttt aatcttcttt tttcatctgt 240
 taaaaaaacc ggtgcggcat taatatTTaa aattgtgaaa tatttaatta ttttaaccac 300
 tattttttta aattgattat tttacttata tttaatcctc cattgaaaat gtctacaatt 360
 cagctgaact gtttatgtta aatataatgt aactgaactg caacatgatt aaatagacaa 420
 ctattacata taaatcttca aa 442

<210> 6633
 <211> 469
 <212> DNA
 <213> Glycine max

 <400> 6633

agcttggacg aataaggtga tgcatttagg aaacacaaca actaacaagt atgaaaattg 60
 taaatatata ttggtttttag ggtttacaca cgaatggata aaaataattg tttgtgtttt 120
 acaaatgcag ggttaagttt gcacattggg ccttaaagag actactaccg aatagccttg 180
 gagacctatg tagtgtttga gaagccatga acaatatgat cactctacaa catattgaaa 240
 ttaaggcatc gtttgagaca actacacatg tggttgggca tgttttttaa gttaccttat 300
 acaagaaaact atttggcatg gtatcaaggt atgtgttaaa ccagattggt gctgagtttg 360
 agcatgtaaa ttatgctagc attgatagtt ctattatag atatataatg agaactactc 420
 acggtctctc atgtgcacgt gagctagcta gatatgttct tggaacata 469

<210> 6634
 <211> 343

<212> DNA
<213> Glycine max

<400> 6634

agctttgagc aaattcaaac gacaataacg ttactcggg tgttcgattg tgtcccgtag 60
aatatcgcga cgctcaaaat tgaaaataga agctctgagc aacttcaaac gacaataaat 120
ttttactcgg atctccgatt gtgtcccata atatatcgag acgctcgaaa ttgaaaacag 180
aagctctgag catattggaa cgaccttaac ttttttctcg gatgtacgat tgtgtccctt 240
agtatatcaa gacgctcgca ttgacttcg gaagctctta gcataactcaa acgacaatat 300
tctttacctc ggatgtccga tagagtcttg caatatatta aga 343

<210> 6635
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6635

agcttatcca aacacaataa attctacacc aactcatgtc cagtctatct agataaacgt 60
taggttttca acaatttgtt caagtttttc ctttcatgtg aatcacgtca gtcttaaagt 120
caataaaagt acatttcact ttgtcaaaa agcatatata atgtcaatgt aaatttatct 180
taatttcatt ttcataaatc tagatataaa caattttatc aatatttcct gtttttagcac 240
taactgtatt aaaacacata taaaataaat ttatcataat aacatttatt ctccaaactt 300
tagtaataaa cacagtagcc aaacaattaa aaaaaatacc aataagtata tttccaatga 360
tatntttttt aattcgctaa ggttgtgttc gtttaagaaa aaaagactaa aaaatgaana 420
ataaactata aaataatatg agatctatac 450

<210> 6636
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6636

agctattatg aagttaaaga aatctttgta agctttntac ttcttggtat atgtataacc 60
caatctagcc ttttcgatag cacatttttg ttgtgtaagt aaagcttcca aattatctct 120

ccccatagtg aacttgata aagtttttag caagtattct accttgactt ctaaaacttt 180
 acatccttca caaggagaag tgacattagt ggtgtagtg caattgcaag aagacttggt 240
 cttttctttt tctaaaatat cattttttgc tctttctttc aaaaattctt tttgaatttc 300
 cactagctta tccacatgcc acttcagttt tccttttaga agattatttg caatagacaa 360
 attntgtgct tcttcatgta tttcattgaa agcatgtagt agctaatacat agttatcatc 420
 aacttccaaa tctaaaatgt ttacctcact ctcaacttca 460

<210> 6637
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 6637
 ccaatgcgag ctctgaccgc tgttcgttct tcccgcgatg ctcttatca tgttcgcctg 60
 agtgggctta tagcctagac catactggcc acgaggtcct tgggagacta tcacgctaga 120
 tatgccgaca ttgattttgc gtaaaccat ccttggacca taaccgctcc ccaccataaa 180
 ttgggcctac agtatcgtcg gatacgacaa acaaagtgtg ccagagagtg gatccacgga 240
 cgatatgctg accactttag agactggaag cggctctgaa attctcactt gttccacgca 300
 ggcattggaga tgggagctac caagatatct tctcgctgaa cgagaccaat gccctcccta 360
 caa 363

<210> 6638
 <211> 609
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6638

gttcctgcgc tatctccent actacgtcng nntctcgcnt nctntttgcc gtanacaatg 60
 tcaactcnnnn nntnnntnnn nnntaggnnn nnnngntggn nattgaatct ttgagccct 120
 cgnatcnccg agagaccacc agagnggacc cgaacgcatg caagctaaag agacgcatat 180
 acganacact tccttcttca ggtctgaaaa taggaaagac accgtaggtc taacggttta 240
 cacacacaca tggattgaaa ataattgattg ggtttcacac aagcatgacc aaggtagggc 300

ataggggcat ataaagacta ctaccgaata gcctaggaca cctatgtatt gctagaaaac 360
 caagaacaaa tgaaccctct cgacataatg aaataaagta tcgtttgaga cactacacgt 420
 gaggctggca tgtttagaag taccttatac aaagagtaga cggatggtat agcgggagag 480
 tagtcccgat tgaacataac acgagtatgc ggtgactcta gggtagatgt gaatgttccc 540
 atacataaag aattctggcc ggactgacac gttgcaccct tccaaaggta ttctaggcca 600
 caaacttcc 609

<210> 6639
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 6639
 gcttggccat attagactta ataatttgat tgttcgagta taacattaca aggaaatggt 60
 tttaaagaaa tcataacatt gatctgggtac tacaaaaaaa ttagagattc aactttcttc 120
 actaataatt aacaactaag atttattgat aaaaaaatga tatattattc tagaagtatt 180
 catagatcaa tcaaattgat tgataaaaaa catagatcaa tcaaatttta tgaagattgg 240
 aaaaactcaa tatggaaaag tgaaaaaaga aatatgtagt attaaacata tttattttaa 300
 agcatgtaag ccaagtctaa ttacattaat aaaaaattaa cataaaaaaa tgtatcccaa 360
 acattcagtt tggaaaat 378

<210> 6640
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 6640
 agcttggttg aaggatagat tctcattata caaatcttgc aggaactagc tcagcaaagg 60
 ccaattatga gtgtaaagca gttcattgag aaggtggcct ggcttgagc ccgaccttct 120
 tttgtggggg ataatgaaaa tcctacattc tacctacgct tctagcacga tccatacatc 180
 acaaggaaaa cttactttga tgcagctacc cagttcaaga agacttggtc ttttctttta 240
 tcaaatatca tcttttgctc tttctttcac atactccttt cgaatttcca ctatcttacc 300
 ctacatgcca cttcagttct cctattacaa gattatctgc tatataccac atcttgcgct 360

tcatcatgtt tctcattgca agcacgtagt agctaatac

398

<210> 6641

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6641

agcttacatc aaggaattga tggactctn tgatgatata tcatctcacc atattcctag 60

agaggaaaac caagtgggtt atgctcttgc cactctgtca tcgatgttca aaataggccc 120

tcacatagac ttttcgtgca tagacatcaa atgccatatt aagcctgtac actgttggtt 180

gatagaagaa gatgaggatg gtaacccttg gtatttcgat atcaaaacat acatcaagga 240

caaggaatac tcgtccgagg cctctgacaa tgacaagagg acattacaga gggtggcagc 300

cagtttcttc ctgagtggcg atgccctata taaaagacac catgatatg 349

<210> 6642

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6642

agctagannt tgtgagttga tttagcctta atttcacttt attattatca gctcatttaa 60

aggaactttc aaagtaaaat gtccgattgg gggtttttta ttattttatt attatattat 120

tattttcaga tattttgatt attttattat tatttttgct ttttttattt aaccgaggtt 180

acgacatgaa tgatcagttg gattntattt taaggcggat taaacgagat tacgacacat 240

acgatcgatt gatattcctt taaacatcga ttaagtgaat ttactgctta tacgatct 298

<210> 6643

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6643

agctntataa gtgcgggttc gggagacaaa ggtcaagcgt tcgcgatatg cgaagatgat 60

attccgagta ctttggtttt ggtacgacca tgctctcctg atttccagct gggaaattgg 120

cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacggtttta 180
aaagctctat agttgggcct aggctttaga gttttcattt tgttaaggct ttgtgtcttt 240
tgtttttgaa ttataaata caaggatctt tcttcatctg ttcttgggct ctaccattc 300
tcattcattt gcatgtttac ttctttntct aaaacgacag attcgatgac gagtcctccg 360
aaggcactaa tacct 375

<210> 6644
<211> 364
<212> DNA
<213> Glycine max

<400> 6644

agcttatgca ggcagagttc gagatgagta tgattggaac attgatgcct tacttggact 60
ttaaatacaag caaagcagat gaaggaatat acatacatca aaccacgtat gtgatggaac 120
tgctcatgaa gttcgagatg gacaatacaa tgtcaatgaa gacctctact catccaacca 180
ttgtgcttgg attggacaat gtgtctaagc aggtgagtga aactgcatat ccaggaatga 240
taagatctct tcgatatcta tctacttcca gaactaacat tatgctcatc gtatgagagg 300
caacctaact gctccatggc atttgataga agactccaag acgattatgc catagatgca 360
tgag 364

<210> 6645
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6645

agcttggctt taaaaagttc accttaagat ccgtaacaac ttcaaagcac ctcataattg 60
cctttaatgt gaggacgttc attaaagttg gttttcctag gaagagggtta tcatccgcaa 120
attgaaggat agataaagaa aagtccccctt ctcttaaggg aataccttca aaaaagatat 180
tgtttcaccg cttctcacat caagtcacca agaccctctg ccaccatgat gaaaaagaag 240
agggctatgg aatccccctg gtagagacct cttttaccct taaattcttc cgtaggactt 300
ccatttatca aaatagactt ataagtgaat ttcacgcaac atctaacca cttaatccat 360

attncactaa agttttattct attcataata tagttaaaaa aacgtcacct agtgggcgct 420
tctcacctaa tccactctca ataagatgtc ctgactatct tcatacactc tatcaa 476

<210> 6646
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6646

taataacact ggagtcgaga ggaactcatt taacttgtct gcctctatcc tgaccaaatg 60
gcctcttatt ctagcacatt taggagcttg atttgcagga ctatagaaat tggcatagac 120
atctntaacc actggcacat cgatgctaatt ttctgaaag tggcaacgca ttgagaaca 180
cttcgcctct acaattctac tttaaactca tcaaactcag aatcgataag tttcacattc 240
ctttccggaa ggatccttcg gtctagaata ttatcgatat atcggtcca ggctttctct 300
ga 302

<210> 6647
<211> 257
<212> DNA
<213> Glycine max
<400> 6647

agcttcctcg aatagtcaat gcaggctctc tagatgtgga tagtggtgga gtcgtcattg 60
gagaagtcaa ggcaaaagag gtagatctag gtggagtgga tttcagattt ggagaaagaa 120
acatcaccac cgttggaag gcaaaactcca cctttgccgc gagatacgac gttggcgagg 180
cataggtgaa cggagtcttt agtcgcaacg acgcctttaa caatgagaag aagttgttgt 240
cactatcggt ggacaag 257

<210> 6648
<211> 333
<212> DNA
<213> Glycine max

<400> 6648

aagcttaaca aaatcccttt aatcctcaga ctagtctcc aagagcaaga gagaagatgg 60
agttctttcc cctttgttag taaaaaatga cgcacacccc tagaaattct aggggttgtgt 120

tgccttatgc agtgggtctt aatctagctt aaattaaggc ccaattaggt taggtgtcct 180
tatcaaatg ctaatacctt caatcaaaag gtttttcccg ctggaatcta tgctcttgca 240
atgctttatg ggtagagtta tgggctcttc acaaaggat caagctagta aggaacttgc 300
atctcaccta tgcattttta tttagagatg gac 333

<210> 6649
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6649

agcttatgcy catatttcct tacgaacgtt cacttgcaca agacattcta ttaactaaga 60
aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac atgtacttcc 120
aaggtgtatt tggtacttac atcacacaca tttcttttgc taaattcaca tacatgcata 180
ctctaagcac tntggctatc gaaaattgca tacgtgcaca tcctgggtatt tctaatacct 240
atacatacac aaactttatg ataaaccttg actatctaca caataagggtg ttacatttca 300
tgcttctttt tttcaagttt tttttttact acctanagcc gcatgcaaac tcaagtatat 360
nttcttttgc tcaactaaaat tgtattaaaa aaaaaggat cnttgtaatg gtattcatgc 420
aacatattta ta 432

<210> 6650
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6650

agcttagtgc acagtgactt ttgataaac ataacactgc agcatttgga ggatataaaa 60
cgaggcacta tgcnttttgg aggaggttgg tgaaaggcat gctctgaagc aaaaacatcc 120
actttgggag cttttcttct gtcattatct ttcatttcct ctgtttcacc ttttgttttt 180
gagctnttca tgactatgag agactaaatt acccattgtt gggggctcgg ataccaaaca 240
ctctttgatg taatgatttt tactatccat ctaatgttat gtcaatatca ctgctccctt 300
tctaagaata tttccttggg tatgcgttga taactcatct acatgtatgt tataggcgctc 360

taatcattgg aaaatgcttt taacctaaaa acttg

395

<210> 6651

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6651

agctntaaat atataatctg gctttatggtt aaaatttcat atttttcatc taatacatta 60

aaatatgcaa tatttgagaa caaaaaaat gcaatatttt agtttatttt aacatagaca 120

ggtaggttaa tagtttttct atatatatat atatcacaag acatgatgat aaatagttaa 180

cttctttaag ttattgtcat agtttaattt aatttttttt ggacgtaggc acgtagccat 240

agcttaattt ttttttttta cgagtcata gtttaatttc tgagcatgtg aatgaagaga 300

atcttcttaa cagaaataaa atccacttaa gtaatctcat tatctcgaaa agaaattgtg 360

atgagatatc tttagtgaag aaagttctac atactntaaa atgtttntgg taaactagtt 420

aagaaaccaa tagtgaatta gcatacacga attaaaaaa 459

<210> 6652

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6652

agctagtata atggctatac atgatacatg tcatggcttg gttnggatca agggtaaaag 60

ggatgccccca cattattttc atgacacaaa tgcagaaatg atgatttgga aactctatgc 120

aaaactggtc atgcatgcat ctatgcggac actcacatgt caaaatttta tggtcatgtg 180

atgctagggc tcacgattca tttctctat atataaataa cccaatgttg ccaaaatatg 240

ttcttttatac aatgtgtgca ttcattccgag tccatttcgg gcgtccggga aatttacagc 300

attcactctt atgcgtagac acattttcca taaattgggtt atgatcaatg 350

<210> 6653

<211> 207

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 6653

agctntgatc taattcaaac gacaataact ctttactcgg atgtctgata gagtcccgta 60
tatatctaga cgatcggaca tgcattctga agctctgagc taatatcaac gacaataacg 120
tttagctctg atgtctgat cgagacctgg tatctaata gacgctccca attgaattat 180
gaagctcata gcttattcaa acgacaa 207

<210> 6654
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6654

agctngcttg tggagcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
ggtgattttc caccatggag atgcagcggg agacaaagga gaagaggtaa gaggcggcac 120
catccactag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
gggagcatga aattgaagga agaaaaatgg gagagaatgt gaactctgag ttgtgtctca 300
caagactctc attcatcaaa gttacaacag gtgttacaca tgcttctatt tattgac 357

<210> 6655
<211> 274
<212> DNA
<213> Glycine max

<400> 6655

agcttggatg atgactgcca tgatgaaaag gcatgtccca tgactcccat ccacatgggg 60
gctgctaaca gcaataacag cattgaagag gttgaatctg atgacaatgt ctaagcaatg 120
gaatctgatg aactgttca agcaatggag tttgatgaca aagtccaagc aatggaatcc 180
gatgacaatg tccaagcagc agaatctgat gacaatggcc atgctgtgga atatgatcaa 240
ggaaactggc aattacgttt taatggtgcc ccca 274

<210> 6656
<211> 471

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6656

agctngcatg aattcacatt ctcccctttc tcaagcaaat tcttcttgac atgatcaaga 60
tcttcatgat ttacattctc ccccgttttg atgatgacaa ccacctgtag gttaggagca 120
aaaacaaaga aaaatatctg aaattctgat accaatgcc a gatgtcgtac aggatgtcac 180
gacatcacgc ttcagaacat gcagattata tttgagagta tgaacagatt aaacaggtaa 240
ataacacaag agaattgtta acccagttcg gtgcaatgtc acctacatct gggggctacc 300
aagccaggga ggaaatccac taaaatagtg ttagttcgaa gatctaacag ccactgttta 360
caaccttctc acctaacac taccctgtca atctctacct aagagccact cttagatatg 420
agaaccctc tcaactccctc tcaatcactc ttccgtgttt acaaataaat c 471

<210> 6657
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6657

agctntacag cccagacacc tcaacagggtg agaccgcgacg aggctactcc tcttgagccc 60
acacctgcac aggtcgaaacc agtgccaact aatccaccat ctccagtggc ggatccatct 120
tcttccaagc ttgaagcagc tccctcatct tcacctatta ttattatctc tgaagactct 180
atagagtcag catctggatg agctactact ccttctgcta cccctgtttt ccatctaaca 240
gatgaggagg atacacagga ccagtcacag gaattctaaa ttcttgattt ttcctttctg 300
gaaattatta taactactat ggttttagtac attttttttt gtgattttgg tttataatta 360
taattatata cttgcgtttt tcttgcgaaat acttagagtg catgctttga agcatatc 417

<210> 6658
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6658

agcttgcaaa gatattntat gggccctacc aaatcgtgga acacatgggc aaaactgctt 60
 acaaactcca ngttgtgaaa gatgctcgca ttcattccagt tttccactgc tcattactta 120
 agccctntca tcaactccacc atagagccca tcacccattt acctctgcct gtcaattgca 180
 tgaactgcca acctctgatt gctcccttgg taattctggg ttgtcgtgtg aacacggaaa 240
 attcaggtgt tgggtgctgtg ggacgacctt ctacctgaag agacatcgtg ggaagattga 300
 gagccattga aagctacctt ccaccttaag gacaagggtgc ttttccaagc catgaggaat 360
 gata 364

<210> 6659
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6659

agctnngatt gatccagtct aactatggat cgaggtttag taatttaggc tacaacatag 60
 aacacaaaag catgattgat tagagaaaca tccttatatg catcagctgg tttgttggaa 120
 agacccaaca cttctaccta ctgctgtcaa ttttacttac ttgcattttt attgttttta 180
 tcctaaactt agtttaattc tgttttaaac catcaattat caatgtttct ttcaacaatg 240
 tcttatttct gaatttaacc cggctcttaga ctagtccct aagtttgata ctcggtattca 300
 tccattttta ttttaaatat ttgacgaact ggtgcgcttt ntggcaaacc agatttcctt 360
 tgaacatatt tgtataaaaa aaaagtgaac caaaaagtaa ctacaaggga aatccatcat 420
 ttccctttca cacacctaac 440

<210> 6660
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6660

agctnntagc gatttggact agcgaactaa ccgattgagt ccaccacatc tgatgaagag 60
 cccctccaaa gcccttcggt cctagaacct atgaattcca ctatcaaatt ttagtttctt 120
 gaaacctaac acaagaaaaa ctttgatatt taggttcaag tacaacatca gttctcataa 180

aactgatggt aacgcacgac actcaacatt gattctacat aagaccgatg ttgagtacaa 240
tactttacat cagttctttt aaaattgatt ttaacaactt ccagttattt taaaaaatac 300
cactgtgtat ttgttaacat caattntcat attaaccgat gttaactgag cgatataata 360
tacatatttt ttagtagtgc aaacacaatt taa 393

<210> 6661
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6661

agcttccatc aagtggtaat cagagcacia gagtttcaag taggtgctcc ttanacctcc 60
attaattntt tttctttgcc ttctcttcca ttgttggttc ttaatttttc tccatgtatc 120
tcctcacatg tcttggttcta aattttgtta acatgattct ttagagtttc caccgattaa 180
acttgctata gaagttagat ttgattttct atggctcaaa tttcttggtc ttgttcttga 240
accatgaatt gtgctgagtt taggttcctt tgagttttgt cttgctattt tctgaggctg 300
acacctaacc catataattc ttacttacat atgtaatctg acgaatacct cataactcta 360
gcgtgacctg ttcacctact tg 382

<210> 6662
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6662

agctnnttac aaaagggttca tcaagtcata gtgaaatatg gaagtaacca tcttgcaaaa 60
ttggggcaaa agatgaatcg agtcacatca ctgcttcgtc tactgcaaaa catatttagg 120
attggtgatg tccttggttac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180
aaaatctaaa ttgattcaac cccatattct gcgtaaaaat tcgcaatact tcgactgtac 240
atcattcgca tgcattccatg cttttcattg gatgcattgc tcgttgcaatt ctttccttga 300
aaaataaaat aaaatgaact taatcattgt tataaaaaaa gaaagggaca cgctttacga 360
cgcccttacc gaactcgtgc tatagctaga gtaatgggtg a 401

<210> 6663
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6663

agctnnnttg aaagacacat ctcttcaaac cattttgaan aggtacaatg gacatatata 60
 catgtgtgtc tgaatttgaa aagtaagaga gagattntaa aaagagaact ttattatcaa 120
 atgttctcta aacaactatt ggccaaacac tcgcaaatac attgaatatt cttctaagat 180
 tntcaacttg tattatcatc tctaaaagag agaaattctt ctgtatattc taaacattgg 240
 tgtgatcaag agaatgtttg tctcttgact tgtgagaatc ttgaacacaa gggagacgga 300
 tcccacgatg tg 312

<210> 6664
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 6664

tgcaagctgc atggtgaatc ataggcgact caatggtgcg gtgatgatca ctaggacgat 60
 gacaaaagat ggtgacatag gtgccgacaa agagctcatt gaccgatcca agctctgctc 120
 aggtgaatcg agacaattca tgagctcagg atgcgaatga tgatgaattc cagactcatg 180
 aggatacggc acattcctga atcaagattc atggttcaag atctcaataa tcacgatcct 240
 gattctcgac tcttgattca tgaatcatga gaacgcttaa ccaagataag tatgacaagt 300
 ttttctcaaa tattgagtag cacatga 327

<210> 6665
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 6665

agcttgtcac acccaatgtc cacccttaat gagttctata ggcttatatg ccacgtctcc 60
 agtgcgtgcc actccacgag tgacacgtat gcaagagcac gacactacgt ctccagtacg 120
 tgccacttca tgagtgcac gtatgcaaga gcacaccaca acgtctctag tgtgtttcac 180

tccatgaagt gacatgtatg caagagcatg ccacatctgt agtacatgcc actccacgag 240
 tgacacgtat gcaagagcac accacaacat ctttagtatg tgccactcca tgaagtgaca 300
 catatgccag agcttaccac catgtc 326

<210> 6666
 <211> 127
 <212> DNA
 <213> Glycine max

<400> 6666

aacatcaaag tgaacgaca ttcaaacagc acaagctatc acagccaagc aaaacagagc 60
 aaaggcagag aactctgcca aaacaccaac caaatcacia gctttctcac ttaaagactc 120
 caataac 127

<210> 6667
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6667

agcttcttat ctaaggcact cttttggtgg tgaatcttct tcttccatgg cttattctct 60
 agtggatggt gcctcctctc acctcttctc ctttatcttt cgctataact ccatggctga 120
 aaatcaccat tgaaggacct tattgaagct caaagatcaa gcctccatag aagcttctca 180
 accaagcttc catcactcat gattgtcatg tatgaatgca aaaactatnt actgtagcaa 240
 ttcgtggtat ctttcctgac aaagttaggg ttgccataac tcgtctatgc tttctttnta 300
 atgctatcta tagcaaagtc attgacccta gaaaattgga tgaattggag aatgtggctt 360
 ccattgtcct ttatcaaagc gagatgtatt ntcctccatc attntttgac ataatgggtc 420
 acttaattgt tcatctggcg agggga 445

<210> 6668
 <211> 533
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6668

ngccgccagg anaatgatac ctgatgacgc tagcgacaga ctgncatgac tcagcgggtgc 60
 actgtatagc agatagtgtg caatccgtct tcacagatgg tactctttca caatttactt 120
 cagaagaaca tgggtgctgaa gaatatttcc ctgcccgatg tcaatgatca aggcgagtag 180
 gccaccact atgagatacc catctgtgga gcattggcat gacaatgcct acctctggtg 240
 gctaacacca tcctatagtt gtattttagt tgggagacat aggcttaaca tacgtgtgat 300
 taccatatta ttctaataaaggaaatagg cgaaactagc tgttcgcgaa ttcaccgatt 360
 gtgctagtgt ttggagggat caacttatga cttgacggct caagactgat gataggccta 420
 ttcgttgatg agaggagatg catattgctt acgatggaga tttgacctag acactatcat 480
 ctggatctca cataacctgc cactctactc aagattctga ggtgaggaca ctc 533

<210> 6669
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 6669

agcttacggt ccatgacctc atacattcgc tcttattggg tatatccac tagttttctt 60
 cttaaaagct tgctaatttt atgccatgca gataggctat atggaagtat ccacatacaa 120
 cagaggggaag ttgaaagggc gtagaaacta aacatatttc aagcgtttca ctttaacgca 180
 caattgtcta atgaacagag ttgcactcat ctacaatttc aagctgacgt acagcataag 240
 tatccatttc cctcgacatt aactcaaatt ttgtgtacag aacataaaaa tatttgttac 300
 taaatactga ttctgactag gacaggatag ccatgacatc tgaggccctc aaggcaatgt 360
 agacagaacc atctctgccc ttgaagtcac tcgctgcata tctggagtac agaactgtat 420
 tcccaggcat gacggacaat ggc 443

<210> 6670
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6670

tgtggcaatg ctacagtact gacaacatta tacgccgctc gctatcactc tccanatcca 60

tatagccaag agcaatgtga gttaaattgt gaaattcacg catgtagtat tgaagatata 120
cctgcaaggg ttacatcaaa acaataatct gtcagtatca gaatcccctg ttattcttga 180
aaaagcggaa agtaatgaca tagaaatctc acacatcgta tccaatctat gtcataaac 240
tcaacattgt taacaacttc taatggaacc acagcatcgg gtttatggat atgggctctg 300
accaacttgc gcaatgggtt aaaccgagct tgaattcctt ccatatcatc ataaaattca 360
tcgccatgtt catcgtaa at acagcctaaa ttctccgcat tcaaatactc aagattagga 420
cactcacaaa gaagctcagc agaatgcata gcactta 457

<210> 6671
<211> 461
<212> DNA
<213> Glycine max

<400> 6671

agctttctct ctagtagttt tctgtttgat ttatagatta aagtgaaagg aaaaaatata 60
tataaaaaag aaaaaaatat ataagaaaat aagatgattt tttgaattgt ttaataagag 120
aaaataaaaag gaaaaatatt ttaatgtgtt aaaaattaag aaaacaaaaa tattgtacct 180
aaaatgacat aaacaccctg aaaacaaaat gaaccataat atgtataaaa tgtcatttta 240
gtctttttat tacaaaaact tattttctac ttttttctct ctctccaatt tgaggagata 300
cagatgagga aaacaaacaa ttttctctcc acttttgcta cttaaatttt tctttcttcc 360
ttgttactag atgaaccaa tgaggggaaac aaacagaatt aataagtttt ctttccttta 420
ctttctagga taaattagtt tgtagatttt tattctatta c 461

<210> 6672
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6672

ngtatgtaat ggacgatgtc atggtttcag ccaaaataaa gtttgttatt catcgctttt 60
aatagcgagc cagctaatag ctatactagc ttctgttga gtattgactt gctcatgtca 120
agaatttaag aagcatcttc cacatgatta aaaagaaaag gtgtttaatt ttgtttaatg 180
tgctaatacc tgtaggttct tttgggataa ataacaccta tgatttttct gaaagtcaga 240

aataaaattc caaattgtgt ctaaggtaac ttgtagtttt tgcttaaatt ttcaataaat 300
 atatagatgg agaaaaaata caataatfff tcaagtttct ctgttttcaa ttcttttcca 360
 ttaattgagg tgtataaatt aattctaacc tgtaagagaa atctgattta ttctattttc 420
 ttatataagt gttngagtag ttctcaaatt tactctacca atgggttaa atctgac 477

<210> 6673
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6673

agcttctggt gggacatctt gacttgcttt ccattctgac attcaccaca gattctgcct 60
 tcttctatff tcagattgag gatgccttta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatcttga tgccatattc tgacttcac tttcttggag 180
 gatagacatg tggaggagta gctggtttct tgggggtgcc ataggtaaca attgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagtffa cattgaacct ttcatcacac acccgaccga cgctgatcaa gtttgcagtn 360
 agtnccttta ccagcagtag tttgttcaga ctaggaagtc catcatgagc tagctttccc 420
 attccaatga tctttccttt agagccatc 449

<210> 6674
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6674

ggatagggtg acctatatat atgtatatat acttatatta ttttttgggt accaatatat 60
 acttatatta ttctttaggt acaattaatt atttttttga aacaagtaga ctttgattac 120
 acattactgt tccataactt ccattcctat aatcaagtaa gactttaatt acaatttagg 180
 tatgagtcac gtgtcccttt atattcctca ttatttttat tggctttcct attcctgtta 240
 atgtttcctt ttcttttaac ttctctatta agttcctact actccatagc anaggaatat 300
 taatgtgaag aagactttta aaaaggctat caggccaagc cagactntta aaaaggtcag 360

gtcgagccaa aataaaagca nttgatagac tataggctag gctcaggcct canaaattta 420
 ttataggcta ggctcaggcc ttttaaagtc tgggtctgacc tagtcta 467

<210> 6675
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6675

agcttctata taagctgaac cattgtatca atatacacia gttgagtttt attcagaaaa 60
 ttagagttta tctcttttat ctggtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgccct cgctggaaaag 180
 agtgattctt tccttctat catctccacc ctgttctttt caaaccacia ttccagaaaa 240
 tccacctctg cccaaaatta tctcgtgacc ataactocca ttttacacac tcaaattaag 300
 tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttt tggaaatcacc 360
 tcatttgag ccctgtagct tccgttattg ccatttctat atttctgtcc agccaccact 420
 taacctacgt tntaccatcc cattca 446

<210> 6676
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6676

cccatcacat gtggtactat gtggcggtcg ggcgatgggtg cacaacaagt tttccacatc 60
 caciaagcgc gcataaaccc accatccctt gttgcccacc tccaactgag ctacgtact 120
 cccacgtagc ccatatactc ttttctctca acaccgggtc cccatcaatc ctcccaagct 180
 ttcccaacat caaagtaaaa cgacattcaa acagcacaag ctatcacagc caagcaaaac 240
 agagcaaagg cagaaaactc tgccaaaaca ccaaccaaatt cacagctntt ctacttaaa 300
 gactccaata acaattcctt cgttccggtt cattaaccgt tggatcgact cgaaaattnt 360
 actggaagtc tttagtacat aagcctacat tttgaccgtt gtgatctact agcaaacatc 420
 cagaactcga tttacattac tcttttcaca accagcaaatt acatag 466

<210> 6677
 <211> 531
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6677

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gggcccgggg atgatgcttc tatctctgtc gcgggatacct tagagtcacc tgaggcatgc   60
aagctaggaa ggtagtcata cctcacaaga tatatgtatg tgtgtttaag tagcgaaaat  120
accttgata  tgcattgatg taatttaggt ggcaaaaaaa atacctcaa atatatatgt  180
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtatgttt aagtagtaag ataccttgga  240
tatgcatgta tatagcaaaa atacctcaca aaacatatat atgtatgttt aggtagcaag  300
ataccttgga tacacatgta tatagcagaa atacctcaa taaatataca catgttttagg  360
tagcaaaata cctcatgaaa aaaaaaaca caagcggacg agaacaana atatatcttt  420
cggctgaaaa gccagcacac ttttgaaaga aataacttcc agcttttctt tganaaagat  480
tcaccgatca taacaccagc ttttgaaaa aatgtgtatg cacctgaagg g           531

```

<210> 6678
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 6678

```

aaagcatttc tttcaaggat aaaaacaagg tccatgtaaa ttaagaatag ctatccacaa   60
tcactaaggc ataatagttc cctcctatac tcatagttct aaaaggacca aacaagtcta  120
aatctaagag ttcaagcaat ctagagggtg aatcatatt tttagattta aaagaaattc  180
tagattgctt tcccttttga catgcatcac acaagtcac cttcccaaac ttaaacttag  240
gaagtccctt aaccaactta ttgcctctaa gaaactctga gatcaatata tttatcttcc  300
cgtgtttgat taccactaag cattgatata aaactaagtc taaaacaaaa           350

```

<210> 6679
 <211> 595
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6679

```

agcagatcgc ctcatactaa acacatgtgc tcaaantnant cgtaaantntc ctctcntntn 60
tttnnnnnnaa ggcggcgcgcg gatganacga gaccaagnan naccngacac naannanacn 120
gaagcccacn ggcacnncca taccaactac gcggggccctt tacacttcat caaaaagagg 180
ccatcaacag acgaggcata ccatccaaac ccaagaaaca gcatacgcac gcacccatat 240
aaaagaacgt atgaaccgga taaaacgaaa ctgtgattca caaacgtcac agccctgagc 300
tcaagttgct cccccgcgct atctaactcc cttgaggtaa catacacgca cacacacaca 360
tatccaacta tttcgaggcg cacatcacga taacgctact aaattaacat ggacaaccgt 420
cggagaagcc aagcaaaca cacagcaggc acaccgtgaa cggatcagac gaggggctgc 480
agcgtgctaa gcaaacagaa cctcagagag acatgaagga acacggaaca ctcgagcaca 540
gacgtatgag cgttgnctgc aactagccct cgcacgggga gaaataacaa cgaag 595

```

<210> 6680
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6680

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agctnttcga ttcattctat gtaccgtag tggccacat tgtgtttcgt gcatttttat 60
tctcgttttg tttacttttt atacccttg ttgacgtgct taagccattt tacttaagtc 120
atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatct 180
gttaacttcg gttaaaataa attctgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
aaaaagaggt aaaaaataat ataataatca aaaaacatct ttaggtaaaa taaagcggaa 300
aatcaatcgg acgtttttctc tttgggattt ctcattctta atcgattga ttaataacta 360
aaagtgaaac taaggctaaa atcaactcgc ctagtcaagc tcgtccataa aaataagctc 420
ttgaagtttg catttcatta tctcactaag taaaatggat ca 462

```

<210> 6681
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 6681

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tcanaccaca gcaacacana atctaggtgt ccaaaacccc tcaattcaat gggttttcta 60
ggtttgaaaa gtgaaattga gaatgaggta aatttgaagc aaactctcac ctcacaccag 120
tccataacat ctattgagac ttgttcaaac tggttttaca cctaaaatct caccgaatca 180
aaatttgact cttcaacacc caaattttgt cttagaaata gctctttggt cactttggtc 240
atttgttttt ctctctagca cagtccaagc tttctcataa gtcctaaatg acatttcaag 300
ctaagattta ctactctaa cctctaaata ctaccaattc cagatttggc cttccagccc 360
tcaaaaattc actctntttc cacttctaac accacattct tactttctaa ccctagggtta 420
gttctaccct tcactcttaa cagtttttca taagcaattt cagcatataa aca 473
```

<210> 6682
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6682

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ggatctctaa gtcacctgcg gcatgcaagc tntgggttaat caagattcaa cttccctaatt 60
gtgaataact cacattatgt tgatattatg tacacattcc aaacaaatca tggatctggt 120
tagaatatca accttcaatt ttttttttct ccaactacta aaattattta ctttatcctt 180
actcacttta gaagatctaa atctgggttaa caaagttatt tgacataaaa aaaatcaata 240
cactacagtt aaaaacagtc aagtagtgat gatctttcac tactcagctg taaattacca 300
ctcatacacc cgtaatcaca tgtattatta tattctgatt ctgaactaag ttaataaata 360
aacgatccca actcatttta gagggtaaaa taagtaattc cgattgtttg ataaanaaac 420
caatacaatg attacttact ttaatcaacc cacatcacca aaacgataac ttcataaaca 480
aataaat 487
```

<210> 6683
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6683

gacacttgaa actaagcttc taaggaggtg aacttagttn ttagatgggt gtgtgtagct 60
 tagttctage ttctcaagga agtntctca aagaagcttc tcaaggaagt tttcttaaga 120
 aagcttctca aggaagctac ctagtctata aatagaagca tgtgtaacac ttgttgtaac 180
 tttgatgaat gaaagtctta tgagatacac ttcaaagttc cacttcttcc cctcttttat 240
 tccttcaatt tcgtgctccc ccttctctc tttcttttcc tccattaaag catcctcttc 300
 aagcttctta tccaaggcaa ttcttggtgg tgaagctcct tcttccttgg cttattccct 360
 agtggatggg gcctccctc tcctcttctc ctttgcttcc cgctgcatct ccatggtgaa 420
 aaatca 426

<210> 6684
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 6684

agctagttac atttgtatta gagctggatg gtatctgagc ttgatctatc cagcttggtta 60
 cataatttgt tggatgggat tagagctaca taaacatcca gttattggat caccctgatt 120
 tatctacact ctagatgtct attcctaagc gtgaggggtg gtgttggttg gccaccaaca 180
 atttttccac gttccaaatg tccaatcctg gaagtgaagg ggtatattgt gttcccacat 240
 tgactagaga tatgaccaat gtggtcctta taaggcttgg acagtcttca cttacaagt 300
 cggttttgta gggttgagtg atgccttaag tatgaattct aagaatcccc ttcattctct 360
 tactctactt tttctattct acattcctat ctccaccatcc cacttctagg ttttcttatt 420
 cacttttcgg gccctagcat tatgatctga cttg 454

<210> 6685
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 6685

tatgagacca aaacatgaca gagaatgttt ccaacaatct tactatataa tattatccaa 60
 aacacaaatg aattatatag aaatacttct cacaacatgg ggagtaaaat ccctcacaca 120
 atttcacata atcatattaa aatcataggt tcaaaaacac aaaaacacaa agagcattca 180

attttatcaa ccagttcgca ttaaggcatc aattaaccca tcaaacataa caatctcatg 240
attataatca taaaggcata attacaatac aataaacatc ctaaaataaa cctcaaattt 300
gatcctctaa ggatcggttac acatgtttat tctaacccca attgcgataa actcaaccct 360
tacctctaag cgggctcacg tgtgtagtcc agcaacgata gcggcgctctc taat 414

<210> 6686
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6686

agctngccaa aggtcgaana ggagcttgtc cgatcaattg agcaagacca aagaaaacat 60
gtgggccatc atcgaccaat acaaggaaaa gttaagccta gcggtaactc acaaacaag 120
gctagaggac gagtacgtga aggtataagt cctgcaagtg gaaaggggaag caagggaaag 180
ggtgatcgat tcattacaca gagaagcaat gatgtggatg gataggttct cttttactga 240
aattctgata ctggggacag atgtcgtaca ggatgtcacg acatcgcgct tcagaacatg 300
cagcttgat atgaccgtat gaacagatta nacaagtaaa taacacaaga gaattgtaac 360
ccagttcggg gcaacgtcac ctacatctgg gggctaccaa gccagagagg aaatccacta 420
aaata 425

<210> 6687
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6687

tgaccaggaa ttatntgtat gggttggatg ttgaattctg gttgttcctg gtgcggagat 60
gatggtacag agggatgaacc angagctgaa gtttcttttg gtgaggtagc catggaaaag 120
caaagcgttt ggaatgattt cgtaaatttc tgagagctgt tggggaatgc agaaaacgag 180
attaacacga gaatataagt ttgaatgagg aatgtagagg gacgtgtgaa gcaacggtcg 240
aatttgcttt ggttcagtag tgaacgtgct attaattgta agtgattcgt ttgggcacgt 300
tcagatatca gtagttgcta caattcctct agcagacaaa tgcccagctt gccoctcagt 360

ttttcaaact gttttgcatc caatgccttt gtgaaaatat ctgctatttg ttcctcagtg 420
tcaacatgct ccagtgatgat aactttatca tcaacaagct ctctaataata 470

<210> 6688
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6688

agcttaacta actccaaggc atcacctgct gctttataact ccgaatcggg agttctcacc 60
taccagaagt tccagaatcc agtacagact tctatttcag cttatgtgtg agtaaaatat 120
tgctcaaata ataaatcatg ttgatgttgc tattcaggaa aaataacaaa ataccaataa 180
attatgttaa taataaaggg gttggtatgt gttgatggta aattatggag ctacttattt 240
acctgcaaca actccccgca ccctaagctc ttttgataac ttttcaacaa attgtcgggg 300
attgagatgt cgaacgcttg aaaattcaac ctcaaactct tctgggacca tgttacagca 360
ataaggaacc caagatgaaa gaattcgctt tcggtcacat ttagcaacta taggagccct 420
gttagggaaa catttaacaa aatagacgtt attntacaca tggagataac aat 473

<210> 6689
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6689

tcaagatgta gttaagatac ctgacaactt ctgttcgtgt ntgttgcttg atagaaacac 60
agatgctaga tataataata tgaggaaggc tgcttctcgg gcagattccg gtgacaacta 120
tttatactgt ccaagggttg tagatctaca ggatgaggat ntaaggcact ttcagtggca 180
ttgggaaaag ggggagcctg tcattgtcag caatgtgctn gcaaaaacat ctgggttaag 240
ctgggaacca cttgtcatgt ggcgtgcatt ccgtcagatg actaagacca agcatgaaca 300
acatttggat gtgaaggcaa ttgattgctt agattgggtg gaggtttgtt taatttctca 360
atcttgaact tcgagggaaat tttgcacaaa ttccattgct catgttcatt ctcatgaagc 420
ttatgtttaa attgtgtaat gttggtactt attttaactg gaaccactga 470

<210> 6690
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6690

agcttcacaa gtaaattaac ctctgcctg aagtcctgac tgtattaaaa agtaatcagc 60
 agaaagaaaa ggataagtgg ctgacaaaag gataagatat aaaaaatagt tctgaaatta 120
 cacaagctta aaccaagttg tctgtctatt gctatgaagc aaggactcta acactaacac 180
 cggacacgac ataaatactt caacacggct aatgtctaaa atataggaca tggggacacc 240
 gcatatacac acaaataagag agattctaata taaatgaaat atgagtaaca tagtggatgt 300
 tatggtgagg aggaagatca attttatgtg cctacaagaa actaagtgga caagtgaaaa 360
 agcgaagaa ttagacagct cgggatttaa gctgtggtat acgggaaaaa tcagatcaag 420
 aaatggngta gggattattg tggac 445

<210> 6691
 <211> 81
 <212> DNA
 <213> Glycine max

<400> 6691

tacaagaatg aagctctgat accacttggt gaacaagtgg cctcagatat cttaagaaga 60
 gggggggggg gtgtgaatta g 81

<210> 6692
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6692

agcttccac ccagctcgcc caggcgagct catttctttt atgcgagcaa gggtgcttcc 60
 tccagaagca acagccttct ggaggaagga tctggaaggc ccaagtgggc cagattgcta 120
 tttgtacccc ctttttact aaatgcaccc ctctattttt tttggttaatt ctttttccgt 180
 aacgttacga aactttacga atttcgtaac gatacttatt ttccttccgc aaggttacga 240

atccttacgg attatgtatt tactttttat tagcattcga agaagttacg gaaactcacg 300
aattgcgcga aaacacctct tttcgatttc tgcacattac ggaatttcac ggatcgcgca 360
agcctgcttc cttttgattt ctgagacgtc tcgtgacttc atttattgtg caacaaagga 420
cg 422

<210> 6693
<211> 484
<212> DNA
<213> Glycine max

<400> 6693

aaactaagct tccaaacatc caagcaaaac aacattcaaa cagcacaagc tatcacagcc 60
tagcaaaaca gagcaaaggc agaaaactct gctcaacaca tcaaccaaaa tcacagggtt 120
tctcacttaa agaccacagt aaaaattcct tcgatccaat tcgttaaccg ttggatcgac 180
tccaaaattt tactggaagt ctatagtga taagcctaca ttttgaccgt tgggatctac 240
tagcaaacat tgagaactca ttctgcacta gactttccac agccaaccac acacaagcat 300
ttttctgcac ttgtgcaaaa ttctgctgca caatttcaca gcaaaaattc tgcataagtg 360
cagatttcga aaatcacact tcctctcatc caatcttgcc caaatcaatt cctacaagtc 420
ccaaatcatg tatcaatcat gtctaaacca aattcaagct ttaaagcaca gcaacacaga 480
atct 484

<210> 6694
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6694

ntaagaagtt gtcaaacatt aatgaataga aaacaacata ttgtagttgc tactgacaag 60
aaatcaaact tggtgaaaag agaatatagg attcatttga tggcaacaat tgattgtatt 120
catttctatt gaagcaaaga ttgacatttc gtggatcatg tgaatcaatt tattcacaaa 180
atcaagataa ttctattgag cttctacata ttcttgacaa tcataatgaa gatattgata 240
acgttctaaa aaatgctcgt ggaaatctca aaccagtggc acctaattatt aaaaggatat 300

tgtgatagct gccgcttggtg agaccaccaa aattattggt gatgatgtta gagatgattn 360
 ttttgccatt ctaattgatg aatctcgaga tatatcaatt aaggagcaaa tattgggtgt 420
 ttttgttatg cagataanaa tggaagtgtc a 451

<210> 6695
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6695

agtcgcctgc tgcattgcaag cttccatagc aagaatataa caatgatata ttattagtat 60
 atggaatgca tgggtttcttt tttctttaga taactatgat agaatgaaga gacactatcc 120
 taatactatc attaaaaagt ttaccaaagg aatctctcta gaaaaggcta cccatcaaac 180
 aaaatttttag gcccggttcg tttttactga aagacagacg atgacagtgg agacaaagac 240
 gaagaacgat aaaagtatct attttcaccg ttcatttgag tataaagtaa atagtcaatt 300
 tgggtacaaaa tccacccaaa taagtttgca tccaaaactg agcgaatttg tgaagaaaga 360
 agactgaaat tgaggcggttt ataaaaaatt attcttgtgt ganaaatatg aaacacaccg 420
 agagcttaga ttcaaatatg caccccaatc atattcgaat atggaagacc tagagaacaa 480
 ccaacata 488

<210> 6696
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6696

tattagttgt tacaataatt ntagactcct caacaattta catacatcag tttcgcgtac 60
 aaggtagaga acattgtacc cttttgtttc cagaacatac tgtgttacia atagcttcaa 120
 tctttcaaatt cattgccttc tcgaacaata tacacaacac tntgtgtttc ttcttcaatt 180
 cgatctcttc tttttactct tactttgagg tatatattct taccttagtt acaaacttgc 240
 aaccatgtca atgcccttgc tcacaaactt gcaacacatt gagacactcc tcaatgcacc 300
 aaacccacc gttagtgcatt ccattaaaag atggcactct gcattcatgg ccatctattg 360

ttcccgagct attatgtcac actccactct caagaaacca aacaaaacca aagcaaaaagc 420
ctcaccttca ccaacaccaa caccaacacc atctt 455

<210> 6697
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6697

agctataaat aggctctgaa tccgtgacgt tgttcttata gccaccctca cgcttagcgc 60
gagtaagtgg atttgagctt agcgccagtc ttgcaactgag cctggctgaa gacaactgct 120
gcgcataaca cactgatctc gcccttagcg cgcagccttg atattgatgc tcttcagat 180
tcttcggtcg tgctaagcac gctgaagctg tgcttagtgg tggatgcgcg cttagccac 240
tgaagagcta agctcaactg tcacttttag catttcatga cttagcctct ttttcaccta 300
gaattgcaca tatttcatca ttaaatacaa tagaaatatt ctagagacaa cattaacaat 360
aaaacaagat ttatttataa actactacga aataaccata aattggagaa actatacaag 420
ttttgaaaa tgctntatat acaaaagtta gtcgtataa 459

<210> 6698
<211> 456
<212> DNA
<213> Glycine max

<400> 6698

cattatttct tatagagaat acttatagt tataccataa taattgccac aaattgtttt 60
ttttttatga tttcaagttg ttgtaaacta aatacagaaa ctcaattaca aaagttttac 120
aatcaaaaa cttaattata ttttttaatt taaagactta attaaaaatt ctcaaataat 180
ttaaagagtt accaattagt ttaacaaaaa caaatagtaa caagtgagga tccttaaact 240
tttttttttt agaacaaagt atctgaccag atataaatat aagtaaaaaa atggttttcac 300
gctaactaag tattactagt tgttccatcg ggatttggct tgagatttgc ttattgaaaa 360
ccaacaatca atgcattttt tttacttata ttgaaacca aactattact agttgttcct 420
attgggattg gctcgacaat ggttatgaca atgatac 456

<210> 6699
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 6699

tctctactag ggtttcctag cgttagagag aaagagaacg gattggagcc tccattttgt 60
 tgtctctgtg cgagggacat ttctctcacc caacatgtta ttccaaaaat cccaacggtg 120
 ggaatgtgtg gaactaagtt ccaaacctat tgtacaagtt ttacaatgat ccaactgtta 180
 acgagtcac agtcgtaatt atatttggat agggatcggg gtatgccgca aaaataaagt 240
 tgtgtgcgat ggacatttct cttatcacag acattaatca ca 282

<210> 6700
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6700

tactatgtcc caacaatcct actagtagtt cctgtggact cttgttgcac aaacattctt 60
 gccaatccaa aatcagaaat tnttgggttc atattctcat caagtagtat gttactagct 120
 ttcaagtctc tgtgaatgat ttttagtctt gagtacttat gaagatagag tattccttga 180
 gaaatccctt ctattatggt gaagcgcttc ttccagtcta gtaacatgct tctagtgcaa 240
 tcttgtcaat taaaacaagg cagtatgtgt tagaatatat actatacaag agtaatacac 300
 tgcaagacat acatagttat gcttaagata ggaaagcata agtaaaggat taaaggaatc 360
 atccgtaaca attattgaaa aattcagtca gaanacttga aatttcctca taagagcatc 420
 gatggtatat ataatt 436

<210> 6701
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6701

agctagaatt ggatatgaac catgagaact atatttttgt catatctaac catcaatggt 60
 actattgact tattgtaaat gcataaaaaa taatgcttta gcaactaagag ctacaagtaa 120

agaaaactgc atattaagtg actttattct ttattaagat atttcaattc gggggccatg 180
 ttataaatcc tactttgcat gatcttatac aatctctaataa aaatttggtta gagatgcaga 240
 agaagattat cagattcatt acattaatat aagatattgc attgctatag agatgctgat 300
 catgctttaa tgttcttatac tacatgagca acttatattt tcatgggtat attcatagct 360
 ctagatgatc atatagatca tattatgaga gagctntatc atgaaataca agttgcttgc 420
 ttgttggaag c 431

<210> 6702
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6702

taaatcttaa taattagtag gatgttcttg gcacttctca tgttaaattg ttcacattat 60
 cttaatattt ttaaactttc tttcacaaaa gtaacaaaat aaattatttt ctataaaaata 120
 cactgaacta catctaagct taatcaactt tagcaaagta tcattaaatt ttctcataga 180
 tgtatntatt ttataattaa tttatagaaa taactaattt tcaaaaaaaaa aatcatgaaa 240
 ttaacaaaat aaactatttn taaaaaatat accgaactaa atatgaattt aataaacttt 300
 agcaagctat catttaactt ttttcatana tggatttatac ttatgatatac atctactcat 360
 gtatcaaaaat taatttcatg a 381

<210> 6703
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6703

cgtcttgctg gatatttata tgcataattt tctgatgatc accgaggaac aattagggat 60
 caacttgaaa cttatgtgcn ttaagtgaga cgcacatgct tcttttttca nttgtgaaga 120
 tgttcaaagt ttggctatga agatgggttca cactgagaaa catttggtat ttccattggg 180
 ttataaaactt attgagctag ctntgatatt gccgggtgctg acaacatccg ttgaaagagc 240
 tttttcagca atgaagaata tcaagtctaa attgcgcaat aagatcaacg atgtgtgggt 300

caatgacttg atggtatggt acaccgagcg ggagatatct aagtcacttg atgatattga 360
tattattoga acatctaccg caaagaagtc tcggaaagga cacttgcttc gtaatttatt 420
taaccgctt tgtaaattat gttatctctt tattta 456

<210> 6704
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6704

tgtgggtgga ggacgcatga acgaaaacac aatttatggg tcttcgtaaa aggggttgagg 60
atggagaatt gcactaagca atcactacgc acggttccaa gctccagggg ggaggacgca 120
tgaacgaaaa agcaattcat ggggctccga aaaaggggtt aggatggaga attgcactaa 180
gcaatcacta caaacggctc caaactcgtg ggtgaaggac gcatgaacca aaacgccatt 240
catggggctc agaaaaaggg ttgaggatgg agaattgcac taagcaatca ctacgcatgg 300
ctccaagctc ctgtgtggag gacgcatgaa cgaaaatgca attcatgggg ctccgaanaa 360
gggttgagga tggagaattg cactaagcaa tcactatgca tgggtccaaa ctctggggtg 420
aaggacgcat gaacgaaaac cccattcatg 450

<210> 6705
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6705

agctagagcg taaactanat gccttggttt acctgttaac ctaactggcc atgggataaa 60
aatctgcacc tttcgccaca ctctgtggtt tatgtctctc taccgaccac catacagacc 120
tttgcccttc tatgcaacaa tctgaagcaa ttgaacaacc tgaagtttat gctgaaaaca 180
tctacaatag acctcctcaa cctcagcaac aaaatcagcc acaacagaac aactatgacc 240
tctccagcaa taggtacaat ctctgggtgga ggaatcatcc cgaccttaga tggtcgaatt 300
cttcacaata gcaacaacaa caacaacagc cttattatta aaatgctact gggccaagca 360
gaccatacgt tctccacca atccagcgac agctacaaca acgacacatc ggacccgaaa 420

tagcaa

426

<210> 6706
<211> 380
<212> DNA
<213> Glycine max

<400> 6706

atgaatgaga gtctcgtgag acacaactca aagttcaact tctctcccc ttttcctgtg 60
tgagtttcgt gctccactct ctctttctct ctgtgtttac ggccctccat tgaagcatcc 120
tgtccaagct tcttatccaa ggcacattct tggtagcgaa gctgcttctt gcatggctta 180
ttccctagtg gatggtgcct cttgtcacct ctttgccctt gtcgtccgct gaatctccat 240
ggtgagaaat caccattgaa tgaaggtcac agatgcagcc ttcatagaag cttcacaagc 300
gagcttccat gactgtggct ccctctgcct ccactcatca tctgctacct tcaagctctt 360
acccatgggt tactatgttg 380

<210> 6707
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6707

atccttaagc gacgcggctg cagcttgcta tgtntatgaa ttattttgggt attcatcttt 60
ctccacctgg nagacgcctc tcttcattat cgtcttatct cctaggttgt tataggggtt 120
ggatcacata tcttcaatga tcttgatggc atcagcaaga ggttttaaca tgatgttacc 180
tccacaagca acatccaaac ttgtcctggt gtgtgaggac actccaccat agaaaatatg 240
aacttgctc tgtggggaga agccatgatg tgaacaactt ttgatcatct cttgtaactt 300
ttttaggctt tatgtagact ctcttgctcc ctctacacaa agtttccaat atccgtgatg 360
tactcatccg tcttcatggg agagaaatac cttcttaaga aggcatttat gcactgggtc 420
catgtagtgg tgtttttcgc aggtattgag cacaaccaat cccat 465

<210> 6708
<211> 460
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6708

tcttatccaa ggcaattctt ggtggtgaag ctcatctctt cttgtcttat tccctagtgg 60
atggtgcctc ccatctcctc ttctcctttg ccttcgctg catctccatg gtgaaaaaat 120
caccattgaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc cccacaagca 180
agcttccatc aagttctcac ttaaanatga aaagatatat ataattttct caaataatat 240
tttactaaat tctctcttta taagaaattg agttttggct attgtaacat attatgaaat 300
cgatgtaatt gattacaggt tgatgcaaca aattacaaaa ttaatgtaat cgattacaga 360
tcaatataac aaattacgaa atcgattaaa acttagctta gatcaataaa atagtcctta 420
ggaaggaatt aatcatttac aaacctatgt aatcaattac 460

<210> 6709

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6709

agcttataaa gggatgctcc ttcaaagtag aatacttgaa ttanaaaaaa aacaaaatta 60
atgtaattaa aaaagtaaaa atttgacaaa taatcaatac ttttttatat ctaatatata 120
cgagaatcaa taagaatatg ttttatagca ttatttcata actttaatta ctcatcaata 180
tatctttata gaatatttct ctattaatat ttccataata tttaaaaaga taaaaattac 240
taacaagggt tgagtctaac aaagaggtaa atctttcatg ataggaatga caacgtgggt 300
caatcatgtc gacaagttga cctgccaaaca aaagtgtgta gagaaataca gccctttgat 360
aactgggagg gttgaccaac aaataaataa aatgacatgc tatgaaatga tgagtttgtt 420
ggttgataaa gtaaacttcc aaaaaataga gtgggtaggc ataaca 466

<210> 6710

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6710

tagtgtggct gactggctta aggaanatgt tctctagtct gatgactnta gtgtcgacta 60
gattcacctt ttgggttatat ggttctaatt tttggaaaat ttctttactt tttgttatca 120
aactcaaacc aattattgac tcaatcaggg tactaaatta ctatgtcaag ggtagattaa 180
gtgaattaat ggttgactga cattgagttt aaaatattaa aaatntctaa ttaaaaatta 240
aaatatcatc aaatctcaga agagttaaca aaacaacaaa taaatatata aacgtctcaa 300
ttatcatttt ctaaaatata acaatngacc catcaccatc atgattgtcg ttgtcaacat 360
cataaccacc g 371

<210> 6711
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6711

agctagctaa cccatggaag ctctaatat ctctcactct ttntgnggtg ggccatcctt 60
ggatggcctt gatttttctca ggggtccactt ggaccccatc tctaccaact acaaaaccta 120
agaagactat attatctaca caaaaggtag acttctctat attttcatag aggggtgtttt 180
cctaaggact ggaagaactt gcctgagatg tcttaagtga tcatctagga tcttattgtc 240
cactaaaata tcatcaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
atgcataagc ctcataaagg tgcttggtgc attagtgcgc ccaaaaggca tctactagcca 360
ttcatacaaa ccaaacttgg tcttgaaagc ggttttccac tcatcacc 409

<210> 6712
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6712

acactataga aactaagctt aagctcagga aaagcttgaa gatgttttga ttnttacatg 60
cctaactttc ttgagtggca tttgtattgg ttgttatctg gtatgtttca tcttagtaca 120
tatgatatta gtattgcac attcatcatc atgggttagtg tgaagaaaag tttcttcaag 180
aggcaaaaac tctctgtttt aatcgattat aggtctatca taatcgatta cagcaagatg 240

tttgaagctt aaagagttga gtctcgtatc attntaatca attacagttg tttcaaaatc 300
gattacgttg ttgtttgaga caatgactaa tttatttagg agtctctgct ntaatcgatt 360
accaagtggg ttaatcgatt acttctctct cgcttagttg ttcaaaagtg aacaagaaca 420
cttgaattga ttactttgag tatctaataca attacattgt tctttgagtt attttagatg 480
ttagtaagaa ca 492

<210> 6713
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6713

agctntacgc ggacaagcat cgtagggaag tctttttgtt tttgggactg ggctctggct 60
cgacttcgtt cttacaggca gccctctgcc aaaggggatc actcaaccaa tgtgaagtta 120
gctcgttggt attatggccc atttcaggtc acagttaagc tcggggccgt agcttatcgc 180
gtggattttt cggcaggcgt ttgcatccac ctggtgtttc attgctcgaa cctcaaacct 240
tttcggggcg agacagactc caattcctca attcctttgc cacccaattt tcacgagaat 300
caaccactca tatccccctc tgccattctg gngtctcgtc gtgcaacctc tgatcctcat 360
agttcttggc aggttttggt gcagtggcag ggtctccac cgaggagac gtcgtgggaa 420
gattgtgacc agtctttgca ggacta 446

<210> 6714
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6714

ngaatatctt catttgagta atgcaagcct atccaagcat ttattgtctt tgtaggtgc 60
aagctgtatt actgacttcg aggggtcagtt cctccagaaa ttcaaggag aaagggaaga 120
attaacaagg tgaggaaaag gggatttctt attattctcc ctgagcttgt tatttacata 180
gtattatata gacattccca taacagaatt tggacaattg ctctcctacg aatattctag 240
taacagaatc tctattgcta ttttgccac taggaaataa cgtgctgcaa gcatgatttg 300

gtggagattc tctaatttcc cctttatccg gtatcgccct cttcagctca gacataatct 360
gcaaggtagg tgggttcaca attcttcttt tgttcttggc tcttctccct tatgaccct 420
gatgctggtg tttctcttgg tatggtctct tctccctttt gcaccc 466

<210> 6715
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6715

agctntagaa accctaattn gaggaagaag aagtctgtta agaagaaaat atttgacaac 60
ttntatatt ttgcatcaaa gtccagtcta cgtgtcacia tctgggacaa tttgccacgt 120
tggatagtct atgtgtcatt aaaatttcca acaatgcacc tcacttacgg cgttactttt 180
aaatttaacg gcaaggacta ttttgcaaaa cttatgcaaa gatagagact attttttaca 240
tttcaaaaag atagggacta atttgcaaaa gggatcaaaa gtcagggacc aaaatgccta 300
tttactggag aaaaaaaaaat tttgtcaatg tttgtggagt ctaaaagtcc caagggatac 360
tcttcaagta tagagccatg tatccgtcaa tgatctcaaa ttggtcggct tanagtctca 420
tgggtgtcat atgttaatgc aacaactatt gggtaggtgc gattgcagta t 471

<210> 6716
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6716

gctgagatgt ttagaagttt ggctttactt gttntagaaa gaaaatattg ggtattggtg 60
gtctacaatg gaagacaaaa ttttggttta tatcattaca tatattctgg caccaagatc 120
tagcaatcat gctcaagtca ccgatgacga cttgcatatc atatatgggc caaaattagg 180
tattcaaatg atttgggtac tattgattgt tgaaaagtcg tcgactagtg gattataaat 240
tttcatatgc aatntgacc tcaagattca ttgattattt caatatcgat gtttctaattg 300
ggattgtaga ctttaccaaa gcctctaatt agaaaactga aaggcatctc aagaagcttg 360
gcatgtcata tgttgatcat gagtgggtca tggaaggaca acaaccgcga acaacaaacg 420

ttgatttgat ggaagaagaa tctg

444

<210> 6717

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6717

ggatcttaag cactgagctg cagcttgagc aattaaacga tgataacttt tttctcggat 60
gtcggattga gtcccgtaat atatcgagac gctcgacatt gataataaaa actctgtgaa 120
aattcaaaca acgataactt tttactcaga tgtccgattg cgttccgcaa tatatcgaga 180
tgctcgaaat tgaaaatgga agctcgtagc acatgcaaac cacaataact ttttactcgg 240
atggccaatt gtgtcccgta atatatcgcg atgctcaaaa ttgaatacaa aagctgtgag 300
cacatacaga cgatagtaac tntntactcg aatgtccgat tgcgtcccga agtatatcga 360
gacgtcaaaa attcagagta gatgttgtga ccacaatcta acgacaataa ctctttactc 420
ggat 424

<210> 6718

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6718

tatggtcgtn ntgaattgct tagaccttat gttttcaatt tctagcgcca ctatatagta 60
cgggacacaa tcggacatcc gagtaaaaag gtatagtttt ttgaatttac tgagagcttc 120
agttttcaat ttcgagtgtc tcgatatatt acaggactca atcagacatc cgagttaaaa 180
gttatggtcg tttgaatatg ctacgagctt ctgttttcaa ttgcgagcgt ctagatatac 240
taagggacac aatcgcacat ccgagaaaaa agttaatgtc gtttgaattt gcacagagct 300
tctgttttca attttgagcg tctcgatata ctacgggact caatcggaca tccgagttaa 360
aagttattat ggtttgaatt ngctaggagc tactattttc aanttggagc atttcgatta 420
taacgggact caatcggaca t 441

<210> 6719
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 6719

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atattcttcc cttgcgtagg cataatgttc aattactgac aaggcttatg gagcatccat   60
aactagatca actatattcg aaacgacatt tcagttggta agactgccc aatctctact  120
ctttactcag tcatcaatca acacgaatgg aatatttggc tatcaatagc tcggcaacat  180
taaaaaggat ctctactacg gacatcggct gacgcaaata atccagagaa gccctcttga  240
taagctcggc taacagttct attcttgctt actcaaatgc catccaactc aagtgagcag  300
ag                                                                    302
```

<210> 6720
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6720

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ntatgcatcc cttctcaatt ggatatccac aaccctataa gaattgagcc tatgaggcaa   60
aacatttaag tatgtttgta aggtctggct ttacgcatct cttcttggtc aagcaatcca  120
cattcctcta agcactaagc ttataaggcg aaagtgttta agtatctaga taaccatggt  180
cacaataatt ccatcttttc ataattgggtg ttatatttgt tatatctttt atcttctttt  240
gtttcagttt catagcttat ttgctattac atatattttg ttgttgggat tctagttagg  300
ccttgtggct aactaaatag ggataaatct tttntttaac ttcacattta tctcttgttt  360
ggaatgcact agtgtgatgt tacctaatta gaatatcttt ctaggagagc gtgaggatga  420
cnatcaatgg attctag                                                                    437
```

<210> 6721
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 6721

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agctaagaag agtatggggg acccatctct atgtttatct atggtggcgg ccaggcgagg   60
```

gtgcacaaca agttctccac atccactatg cgcgcataaa cacaccatac cctgttgtcc 120
acctacaact gagctcacgt actcgcacga ctcccatata ctccatatat ggagaccggg 180
taccgactga tccacttaag ctgacacgac atacaagctc atctacgttc ctactggaca 240
ctctatcaca gtcaagctaa accacatcaa atgcagatat gactgctcta tacacac 297

<210> 6722
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6722

gcttctaagg aagtgttctc aagaaagctt ctcaaggaag ctacctatta tataaataaa 60
agcatgtgtt acacttggtta taactctgat gaatgagagt cttgtgagac acaactcana 120
gttcaacttc tgtcccttgt tcttccttca atttcatgct cccccctctc tctttctctc 180
cctctttctt ttctctcatt gaagcatcct ctccaagctt cttatccaag gctcatcttg 240
gtggtgaagc tccttcttcc atggcttatt cctagtggga tggcgccctcc tctcacctct 300
tctcctttgt cttccgctgc atctccatgg tggaaaatca ccattaaagg acctcattga 360
agctcanaga tccagcctcc atagaagccc cataagcaag cttccatcat gtggtaatca 420
gagcaca 427

<210> 6723
<211> 352
<212> DNA
<213> Glycine max

<400> 6723

cttgagcttc gtcattacc tgtcataagc tatttttaca aagctcggct cggcttatat 60
aaaagtgtgg ctcggccac gagcctattt aaaagtctgc ctaacatcgc ccttgattaa 120
ccaattatct taaaacctag cgaacaacga actataagaa gaaccttagt caaatctgtg 180
tcagtactgt acaaatccaa aaataatgga ctaacataat catagtgaat tcaagcggca 240
caacacagcg tacatcatga gaaaataaaa agaacgtcat tttatgagac gtatgaatta 300
gacatggttt gcacaacatg aattttatct tacgtgcaca gtgtgtatga ac 352

<210> 6724
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6724

```
gcttctacat cctatgacag tgttgacctca cttttgcttt tttgactcta gcaatagaga 60
cactatatag tgggtacctgc actccaagaa ctttggatac aatcgacctta ctgattcaaa 120
ctcggcaatc ctntaaagca gctagatgag ttttgggtca atgggtctatg ggttgaataa 180
tgtgataaaa ataacgcttc aatagtgtga tacatatata taagattatt aacatataat 240
gtataaaata aaaacacagc ttatataagc ctacatatcc taatgtatgt gaaaaaagga 300
tttaatctta tatattatat cttagaagat aatctctaag agtataaaac tatcgtaaag 360
ttaaagaggaa taaaagttat attttgaaat atgttcgcac aagacttata ttaatattat 420
att 423
```

<210> 6725
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 6725

```
agctatgcc aatgctgaac ccatatcatg catatatctt acactcaata agaattctcag 60
tacaaaatgg cagaagcaga cttttctcat gctatatgat tgtacctgag gttaacctag 120
acatagtttg attattgatt tctgcattct ttgattcttc atagctgaga tgttatgcc 180
aagaattagc agaatcatca atgatcaatt cacatagtc tagttaatgg gtgaactgta 240
ctttattcga tcagtgaaca aagcttcttc tttcagagta agctctgcag tcagagaaaa 300
ttctgcaaga ataacatgta atgggtttta taatgtggaa ctttaggttt aaaaatgacc 360
aaacacatgt aatgggcaat gaagttggca ttacaaatct ac 402
```

<210> 6726
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6726

tataagaacc aaaatgcctc aatcatttcc aaatatgcat gttattttga agcatcaaca 60
agaatcaagc caaggctatt gtgcaagcaa tcaatggggc aaaacacacc aaatgattat 120
gatgatggat ggctcaaatt ctacaaaagg taaactcatc actttcaa at tgagctttca 180
aaactatcat gacatgtaga ggagaatcaa agattttcaag tcacaaaatg tcaaaaactt 240
ttattttcaa aacaattacc catttcttga acatataccta taattcaaag aaaaacatgc 300
aaagtagtac atgcgacagg aattggccca aaatattaaa ctaaaaatcc gacgaaacta 360
acaacattaa caaattaaca caactgacaa attaacaaaa ccaacaaaac tagcanaacc 420
aaagaacact cccccccata cttaacaac ac 452

<210> 6727
<211> 447
<212> DNA
<213> Glycine max

<400> 6727

agtcacctgc tgcattgata gcttctaaaa agatctgatg acacttttcc ttacatggag 60
tgtcttctct tactccaact tagctaccac acctcagatt tgaatatggg cagagctagg 120
ttggtctatg gcttggtaac caacatggac acgaacattg gagcccttat ctcatatcag 180
atttcttcta ttgctcagag taactcctct aggcttggat ttctagcctt aatcactgcc 240
atatgtagag ctagaggagt tacctcta at agtctgatct atgagagctt gagctcgacc 300
attaatttgg cctacattaa gaaaaattgt tggaatgtgg atgatcta at agttaacttt 360
aaaggggcaa ggaaggcaag gggtctacca actgatgttc cttcttcttt tactttacca 420
actccttgca cttctactac gcctaca 447

<210> 6728
<211> 403
<212> DNA
<213> Glycine max

<400> 6728

cttgaatgct ctattcaatg gagttgacaa gaatatcttc agactaatca acacatgcac 60
agtggccaaa gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtga 120
gatgtccagg ttgcaactat tggctacaaa attcgaaa at ctgaagatga aggaggaaga 180

gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240
agagaggata acagatgaaa agctgggtgag aaagatcctc agatccttgc ctaagagatt 300
tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt tgcaacatga gagtggatga 360
actcattggg tcccttcaaa cctttgagct aggactctcg gat 403

<210> 6729
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6729

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catgcgagct tgctgtcga cgattatagt tattttcttt tagcacccaa tgctgggtgca 120
ataatagtta acgatacgac acgatggata tgcactaatg ctactcaaag gacttgcggt 180
tgtatgacgg attgattaaa tctatgctgc ttacacgcac tccctcaaca ctcttaaaac 240
aataggggaag cgacttgcta agccagaagc gcgaacttga ttataatctt ctaagaaaat 300
aagtaaattt gcgctctggg cgactgtgac tacgagctgg tccatgtgag gtgaccaagg 360
catttctcag atcaccatcc actgcacaag gtaatgatga cccaccactc atgagctatg 420
tgcttgagca acaccggtaa tgtatttcca taaatgggtg tagggtagat cgctctaaca 480
ttacgcaacc gcaccatcgc attctgtcgc agaggtagag acagagatga tcatcgtata 540
ggtcg 545

<210> 6730
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6730

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ctagggcgct atagtgtctt cttggagtag tgactgaatg gactcgtgac gtagaactcg 120
acgctgttta ttatgtggct caccaaacac gattagtagt cttattagga tgcgatgaga 180
tcttagatgg catgtgggtg tattaacaac ggtagcagatt acacagagtc cactattcgt 240

atttgactat tctttactgg gaatgcaaga cctattgaga cggacggggt gtgaaccctg 300
cattctatca tgcacgttgc ttagatcacg tgtggaggtc cacgctaacg gcacatggac 360
attatgttat ggatgtattc tattatgcat taggacttgc gctgatcaaa catgcactcc 420
atgcttgagt cttatactag aggcgtggag cgtcagatac gtgcgtaa atcatagaca 480
cagtcatgcg agggacttca tcn 503

<210> 6731
<211> 391
<212> DNA
<213> Glycine max

<400> 6731

agctttgtta cgtatagtat atcaaattaa tatttgttgg caaattaaaa ttatgatcca 60
ccggatgaaa aagcatctaa ctttatttac atatagtata tcaaataaat aattttttac 120
aaatttgaaa ttcatccag tgacgtactg aagtccaagt ttctttttaa tatagtatat 180
agatagataa atacgatatg caacatatca tgtcaatatg tttggaaaaa aatttggtga 240
accctaaaat aagtaaaacta tttatatatc aataacattc ataaaagtaa tttcaagttt 300
ttaagggaag tagtataaga cttcactaca tttacatttg tataattgac ttgagctacc 360
ggtagtaaaa aaacgtgagt gagttaatga c 391

<210> 6732
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6732

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atcaagcttn tctgaaatcg aaggaaaaga ttgatgtgaa tgatgagagg aagtggacac 120
agcaaaattg ttttctgcca ttgatgaatc cttctaagag attggacatt agatcctcca 180
agttctgagt ctgtacgaaa tgctgttggg gttcttcaag agattggggc attgtcagtt 240
gatgaacaac tcaatcagct agggcagaag cttggctgtc ttcctattca tccatcaaca 300
ggcagaatgc ttattttttc catatagatg atatgtcttg atccagctct aactcttgct 360

tgtgcattcg agtttaatga tccatntgtg catcccactt tacctgatga atagaagaga 420
gcttcagctg ctagatctga gcttggctct ttgta 455

<210> 6733
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6733

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tgtaataata attaaggata caacaagaaa aagatgcaat aattctagtc aaaggacata 120
agtttttatt tttccttgat taaatctatg tgaattacaa tcaaatacaca acactcttag 180
aaaaataatt aattgatttt aaaaacttga agtaggaact taattaaaaat ctcttaaaaa 240
aataattaaa atagcatttc gttcacctgt gactacaact cgatccattt aacatttcaa 300
agtaaatcc caaatcaaaa tccacagtac agtataatta tgaccagaa caatttgta 360
aatcactgag caaaccaata ttatttgga taaaattga agttagatgc tntagttatg 420
caacagaaca agcatctatt gaaaggccaa acaaatatga tcatg 465

<210> 6734
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6734

ntaatatc aaccaccaat attagataca attaactaat tatgtgttta cttcatctng 60
tttgaattcc aataagatac atatgtacag cttatgcact ttgatttttg ttatcgacat 120
ttatagtttg aaacaaaaat gcaaattgga ataataaatc atggtagcta gacaaataca 180
attttggtta atttttttaa gagataaaac tagtttatat tcatatgggc cgtcttgatt 240
aatttgaatt tgaatttcaa gcgagatttg tgtatttggt aattntggtc aaaaaatta 300
ttggttgacg aaattaattg attttaaatt taaacaaaag ttaaataatgt tatgaacgaa 360
aataaatata taagcacaat tagaaacgct aaattaatct actgtcttag taaaatcat 420
gctggtgaac acaatctaga ggtagtgac atataacgag tggagatcct cttgagtgca 480

<210> 6735
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6735

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 atgacatcca ctccacaagg tttgaagtag aggagacctt caatcctatt acgcaacgtg 120
 gcggacaaaa gtgggcagtt aacttgaacg gtcattattg tcaatgcgga aggtattctg 180
 cgcttcacta tccatgttca catattattg cagcttgtgc gtacgtgagc ctgaactact 240
 accaatatat agatgtttgt tatacaaatg agcacatctt aaaagcttac tccgcacaat 300
 ggtggcctct tgggaatgaa gcggctattc ctcttntaa tgacgcatgg acacttatcc 360
 ctgaccaaac tacaattcgt gcgaaaggtc gt 392

<210> 6736
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 6736

ctaagcttct aaagaggtta gcttagttat tagagagggtg tgtgtagtta agctctatct 60
 tctcaaggaa gttctcaaa gaagcttctc aaggaagttt ctcaagaaag cttctcaagg 120
 aagctaccta ggctataaat agaagcatgt gtaacacttt ttgtaccttt gatgaatgaa 180
 agtcttatga gacacacttc aaagttccac ttttctccct cttttattcc ttcaatttca 240
 tgctcccccc ttctctcttt cttttctcc attaaagcat cctcttcaag cttcttatcc 300
 aaggcacatt cttggtggtg aagttcgttc ttccatggct tattccctag tggatggtgt 360
 ctcccccttc ctcttctcct ttgcctttcg ctgcatctcc atggtggaaa atcaccattg 420
 aaggacttca ttgaagctca aagatccagc ctctatagaa gctccac 467

<210> 6737
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6737

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agctttgatc aataaacttt tcttgaaga gtatgtgttg atcaaaaact tttttaaag 60
atgaagagaa atgaatcaga aaaattcttt agaaagatat tgaaagattg attgaaagat 120
gttgagagat gatgatgaaa aacgattgaa agatagatta tagatgattg atgattataa 180
agatgttgaa ggatgattca nagaatcatt gccatggtca catatttata atcttttgat 240
gactcaagtc aaagtttgtg actcttgaa atttctttaa aactagtcac ttaaaaaagt 300
tgtgactttt gaaaaaatct tcagaaacaa gtcacttgaa gaattgtgac ttttggaat 360
atatttttcg aaattagtca ttggtaatcg attacacatc aacagatgtg actcttcatt 420
ttgaatnttg aaaattaaaa catttagaag ctct 454

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<210> 6738
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6738

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ngaaggacat acacaaagtg tgactatatg atgtgacaat cggttgtagc tagcatatac 60
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cccaatacat acatcaaata ttacttaat gcatgtgaaa ttacaaagca acccataata 180
caaaaattag tctaggtatc ctaaaatata aaggctgaaa aatcctatat ttctagggta 240
ccctacctac attatgaaac cctaaatata aggccanana aaaaatgaaa ccttaatata 300
atatgtacaa agataagtgg gtcatactt agtccatggg cccaaaatct accctaaggc 360
cgatgagaac cctagagcct tctcttgcat ctctggtcta atcttcttgg agtcatctat 420
ccaatggcct tggagggtag gaatgcatca ttcccttccc cttga 465

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<210> 6739
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6739

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 ccaaataaat aataaagtca tctcgactca aagaaagtca tataagtctc atacaattaa 120
 tatagaacct atatgcta atgtcacatcct atcagagcgt ggtgttcccg tgcctcttag 180
 catgagggttc ttcatagtca tccacctatt catctgctcc cccgaacaca agttcaagat 240
 catcacagga tccaaacaca acaacacaca gggagtgagt tatcacattc ctagctaata 300
 gagaaacaag acaattaaat atatataatta tataaatgag ataccacttg cttaaacata 360
 gctcacgtaa cttcaccact tcgtcattca aaattcactt ttcaattatc aatcacatta 420
 cacaagaatc ccacacttcg atcaagatat aataacacat caattagc 468

<210> 6740
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6740

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 gttcgtgctc gtgcgcttag cgcacattag tgaattttgg tttagcgcat gctcttctcg 120
 ctcaacgaat gaactgaagc ggtgcgctta acgagatgaa gcggtgcact cagtgaacct 180
 gtacaactca tcttcttccc gattcttctc cgcgcttagc caatgagtgt tgcgcttagc 240
 aaatgcttgc taatccagca tattggctta gtgagaacgt gaaaaacaac acttcaaaac 300
 ttgcctaatt aacctgaaat tgagagaaaa tgggtattaa atgcacaaaa tagaattact 360
 aagtatttat tatctatctn taactaanag aacttatnac actacaaaat aac 413

<210> 6741
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 6741

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 ttgttcaatt tcgagcgtcc caatatatta tgcgctgaa tcggacttcc gtctgacaag 120
 ttattaccat ttgaatttct cgagagcata tgggtgttcaa tttcgagcgt ctgatatat 180
 tatacacctg aatcgggcat ccgtgtgaca agttatgacc atttgaattt cttcagagcc 240

ttcgttggtc aatttcgagc gtcccaatat attatgcgcc tgaatcggac ttccgtgtga 300
 caaagtatta ccatttgaat atctcgagag cactcgctgt tcaatttaga gcgtttcgat 360
 atattatgcg cctgaatcgg ac 382

<210> 6742
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 6742

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 tcctgagagc ttgcgttggt caatttcgag cgtctcggta tattatgcgt cagaatcgga 120
 cttccgtgtg acaagttatg accattttaa tttctcaaga gcattcgttg ttcaatttcg 180
 agcgtctcca tatattatgc gcctgaatcg gacttccgtg tgataagtta tgaccatttg 240
 aatttctoga gagcttgccg tgttcaatc caagcgtctc gatatattat gcacctgaat 300
 cagactttcg tatgacaagt tatgaccgat tgaatttctc gagaggcttc gctgttcaat 360
 ttcaagcgtc tcgatatatt acgcgcctga attgacttcc gtgtgaaagt tatgacaatt 420
 taat 424

<210> 6743
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 6743

gaccatcaat agggtcaggg aatctatctg cgaggagact tgccatgacg aggctgatga 60
 tcacatggag aacttatattt ggtaaaacac catgacagca taaatgacat attcacgcgc 120
 cgcgcaacgc tatttgaaaa tcaatcctgc gttttttata ctttcaagat agaacttcgt 180
 gaatttcttc agggacaatc ttaccctcaa ctagaaa 217

<210> 6744
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 6744

actatgaata ctaagcttca tggctctctgg tataggctct gggactttcc attgcaactt 60
atgtggagggg caaagaaggc cttcttctctgg gggccagagc cataagtgag acaccactct 120
agaagagtta gactttctaac cttgtgtcag gacctatggg ccaaggaata gtctcaggta 180
ctcaatTTTT acggaacgtc tgttttgatt tagctgtttg tagcacgtct caatgcgctg 240
gttgaacgac atgcaatTTT tacccttaca ttgaaagggg ttgcgattga ggggttttcc 300
acttcaaatt gtgtctctgt tttctttcat ttctattatg tgctctatac tttattggta 360
ctcctgacag gtactcgcaa ggggtggaaa atatatgtac gttatctcgt cttactctgt 420
tatagatt 428

<210> 6745
<211> 144
<212> DNA
<213> Glycine max

<400> 6745

tctcgctca acacctgcc aacagcagatg accgatactc ttgggtgcgtc tagcatggaa 60
gaatgagata ggtctgtatg aattcctagg gatgggaata tcacgggtgtg tatgcactga 120
cacgaaccat aggggtttcaa tgcg 144

<210> 6746
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6746

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ggagctcgag gtcaggctaa atgacataat aatatatttg tattattagt ttaatatgat 120
tataattatt tgtttcaatt atgtgtatTT atttttaata ttgcaagatc ttattgattt 180
gtgtattaaa tataatttat aatatatacg ttagataagt aacgggtttgt ctaaataata 240
ttgacaaaaca agaacttatt aagcatgaaa ttgaaataa ctttatttta cttgaagaaa 300
tctttaagta aaatgttcaa acaactatga ttgtatTTTT aatgttttaa atttaattct 360
aaattctaag tcattaaatt ttacaatata agattaacat actcaaaatt aatatacaag 420

tataaattat taagcnacac ccatccaaga cacaggttat cgct

464

<210> 6747
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6747

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caccnccaa taaaagttat ttagtattag tattgataaa ttatattaat atcttgtcca 120
gtgtagtgga aactaggagt gctttttatc tcggtgaatg gggtttgaac cctgtagag 180
gaaaaagca ttttattttt tgtatgattc ctaatctttt ctgtattctc tctcacttaa 240
naaaataatt actcattaat ttcaattaaa taggctgtct cttaatatat caactgtcac 300
caaatttggc ccataaaaca ttgctagatt ggctatatcc aaactcactc tctttgtgca 360
tcttcaatac atcgttgaca cacatctaac atatttgta tcaaattact catcacgcat 420
ctcaatatct catcatcttc cttgtagac aatngacacc agtatttttt aaatt 475

<210> 6748
<211> 333
<212> DNA
<213> Glycine max

<400> 6748

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atgctgcca gccttggttg accggttgta tcttcccgaa atttggattg taacttcaaa 120
agacaattgt acatgatctg accgatggga tccttttgaa aatatatgga gtgtgctaga 180
gagatccgtt ccctatagca tctattattt aaacattctc tccttagctt tcgtgtaact 240
taggaaggac atcatttggtt cttctttctt tctataaaaag ccatagataa agttccaaga 300
actttctcct tctctgacat cctccattat cca 333

<210> 6749
<211> 288
<212> DNA
<213> Glycine max

<400> 6749

agatctagga gagacgtcgc ggaggaaggg tcttgtgctg ccccgagtt tgataaccac 60
cattttcata tcgctgagca ccagcagcgc ttogaggcca tcaaaggata gtcattccac 120
agagagaagc gcgtccagct catggaagat gagtatacag atttttacga ggatataact 180
cgtatacatt ggacgtcact ggttactccc atggctaagt atgaccctga ggtagtcctg 240
gagtattatg ctaatgcttg gccacagag gagggagtgc gagacatg 288

<210> 6750
<211> 269
<212> DNA
<213> Glycine max

<400> 6750
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attaatagct tctcatcttt agagtgtgcg cccatcttgc gatagtacat cttgagatgg 120
ttcttgggac aagtcgtacc ttataacttg ttgaagaccg gtactttgaa cttcgggggg 180
ataacaacat cgggtactaa gcaaagatcc gtcagtgtgtg cgaacggata gtaccacat 240
gcttcacgg ctctcaatct ctctcgag 269

<210> 6751
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6751

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atcaaggaag ctattccttt gtgaagaatc cttctttggc ctatcaattt ttcattggatt 120
gtggcgctcg tttgttcac ttcttcatct tatccatctt ttattgtttt tctgttcttg 180
tgttctttga aggtcaacaa tgggtgttctt gaatttgcac ccgaaatgat ttgaaccaag 240
cgttctggct tggattgcat cacatggtat cagagcttga atccggagag tagttcgaat 300
tatatccatc aattaggtgt agtnttagc attttggttn ttcaattttt caaaaaata 360
agaagctaatt tttcgttcga ttcttgtttg tttgtgttta attgtatgat tcttgtatgt 420
ttntgagtta atcttgcacg tgccttcgat ttcctatc 458

<210> 6752
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6752

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 gattntaacc cgaaagtaaa aacgattagg aggatcttaa tgtttggagt ttaagatagt 120
 gatgtgtaac aaattaagtc catgccgtgc ttttttgttt caaggacaga agaaaaaaaa 180
 attaagctaa tttattaaag aatatgcaat tagtcataac tcanaagcta atatatcggt 240
 gaaaagaaaa tataattaaa gttccatatt aattgatata attgaaaata tgtgcacaca 300
 catatatagc gtgtgtacat gtgtcatgca attntagtag ggggaatcaa ttagtagaag 360
 attagtcaag tttcctcaac caatcatagg tgaaaactgt acaaaactga aattgattgt 420
 caagaagtta actgccccctt atattacagg tactaatata tcaa 464

<210> 6753
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6753

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 tctcatatgt tgataaaaat gacacatgct agtaaaaaaga cccaactatt taaagtaaaa 120
 aattttctttt aaaatttact ttaggcctcg tttatcattg gaccaaccat gatacatgta 180
 acattgtctt cacatatggg tgttgatgct attttctttc atgttgggct aaaatttatg 240
 catcattagc ttatatgcct attttggcct gtttcacata ttgtcatgga attgttgtat 300
 cacctcatgt aaacttaaga tatatcatta tgaggatttg acaaacaacc tctaaaataa 360
 caaagtacat gcttaaatgt ctctgtattg atgagataat tatatttgct agtgaataag 420
 tgggaaatga tatatgaggc tgtgtatgca tagtaagata ccttgggtatt tcaataa 477

<210> 6754
 <211> 362
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6754

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ctgaggaact ccaagagggg aggcagtgat gtaagagacc tcaaattcgt aggaaacgaa 120
tggatccgct gcagaagaga gtgtgaggag caaggagacg ttgattagaa agaagaagaa 180
gaagaagact gctctagaag aagaagaaga agacattgtg tggaactttt caggttttcc 240
tcaaaaaaag aaagggttag agccaagttt ttagtagctt tttctttttc tgtgattcta 300
cattatcaag ggaattagaa agaaagaact tggtaagggg ttctgtgtgg tagagagaag 360
ag 362

<210> 6755

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6755

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tgagggtaag ctgatattga tatcacactt tgacaaaaac tcttaagact ntggatcagg 180
gtcgtggaaa ccataaaagc caatgagacc ttngtcttaa gccctcaaga gttttgtttt 240
ttacattttt aatatttttt tgtcaantta aattattaag tgataagatt tgttaagata 300
tgaattatta tttgtaatca ttttttcatt aataagacta cataatctta agttatgaat 360
taatggtaa atcattttatc taaaatttta actttatttc anaatattaa agaaaaatat 420
ctcatatcta tcttattctt aacctctccc ttatctgaaa aaaatctatt aa 472

<210> 6756

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6756

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cgaatttggt tctgtgtcac aacataagaa atcgcgtggt tcccccaattc ttgcattagc 180
tgtcaaatct aaacgtgttg atgatttaat tgggcgcgct gatggcttga agtaccttgc 240
tgaactttgc ttgattacca tgtgaagatg gacttgatat gtatattgcg actcaatgag 300
caccaccat aggacttgag atcgtgcgct tctgtgactt tgtagaagta tatctcattg 360
aatgcattag gctagggttat tgtgccatgc gtgtgagatg acgaccacac atgtgatgat 420
atcgcaaaga aatgc 435

<210> 6757
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6757

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tgcccaggcg gagcccccttg ctatttttca ttctaccatg ggtgaatagc ctccagatgc 120
actacatgga cacgtgtcgt actcatggtg ccgaatagag tgcaaccgac cacgttgagg 180
atataagctc aagcttgtat actacacat caggcctgcc atcatctatg atagatatat 240
tgcacccatc atcagcgtac agttgcccta cactcatgtg cattcttagc tctagcctct 300
ntaccaaga tctcgagcaa ctttatcaac aatactatcc gctacttcac agcttgaggc 360
tcgatactat gcaaagttcc cgtgatcggc agatggacga gtgactccac atcatatcat 420
gtgatcgtgg cttgcacatc tgaacgtgga agctgtaggt ttaactgtgc acacttacac 480
atcttcagat ataatgccca gatcgtcggt tacgacn 517

<210> 6758
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6758

agctagacac agaagaaaat gaaacacttc atcttgtttg ggatctaaaa ataccgccaa 60
aggtggcaac ttttcatgtg gagattgatc ctaaataagg tgcctcgcg agataaactt 120

cttcagcaca acatcatcac taatgtaact gatgtttgtt ggagcaaaat aggagaaaca 180
 agaaacacaa aaatcaatct aaacacatga actcgtgaga gagaaagatt ggagggaaat 240
 tcttttttatt ctattgtatg tattctgtta cacataatga tatgtctata tatagactaa 300
 ctcaactaac taaccaccat aattactaac aaactagtaa ctgggtttttg aattatcctt 360
 aacaccctcc tttgattcan aaacagtga tcaacaacaa gaacattaca acaacattta 420
 ctgaacaaaa cttcttaatc cttcaaactc tgaact 456

<210> 6759
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6759

ngcttatctc ttcaggatgc tcaacacagt actgcatgtg ctctttcaac ttagacctac 60
 aacaagcaaa tagacaagag catataaatc ttctcacaaa tcacaacaaa ttcagcatta 120
 gcaagttcac atgtcacaaa ttcaatacc cgaattccttg ttcaggctgt tcgcagccac 180
 ggttgctgcc tttccgccgc cgtatttggc cacaaagtca tccttcacac gctccagaaa 240
 agccacaggc acctgtctcc caatcgattc atccgcaaca acacaataag ctacaaaaaa 300
 caagtgtgtg agtcagacat tcattttcaa aaacacagca ccgaacttca gataagccta 360
 taaacaaata ataacaacac gaatttcatt tcagttcatt ttcaaacaca tcaccgaact 420
 tcanaatagc ctctaaacag atcagaacaa caggaattc atttcatttt caacacaaca 480
 ccgaact 487

<210> 6760
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6760

agctnggaga ggatgcttca acggaggana agattgatgg ttataaagag agagggggag 60
 cagcaaattg aaggaagata aaggaggaga agttgaactt tgagttgtgt ctcacaagac 120
 tctcattcat caaagtttca acaagtgtta cacatgcttc tatttataga ctaggtagct 180

tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 240
agaagctaga gcttagctac atacaccctc ctcataacta agctcacctc cttgagaagc 300
ttccttaaga agattcctaa agaagctaga gcttagctac acatacctct ctaatagcta 360
agctcacctc cttgagatga gaagctagaa cttagctaca caccgcgtat aatagctaag 420
ctcacctca tgacaaaaaa catgaaaata caaaataaaa ttccttac 468

<210> 6761
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6761

ntgagaagtg aanatgagaa tggngtaa at ctggagcaaa ctctcacctc acacaagtct 60
ataaccttaa tctaaacttg ctcaaactgc caccgaatca aaatttgact cctcaacacc 120
caatttacc tagaaatggc tcttgctctc actttgggtca ctcatcttcc tcttttgac 180
aaccaagct ttctcacagt cctaaatgac atttcaaact angaatacct tactctaaac 240
ctcattacca ctaaatcaga ttggctttca aatcctaaag catacacttt ccaactcatat 300
cactacattc tacttttaac cctaggtaac tctaccctca tctttatagt ttccatagcc 360
atttagcaca caagcatcat ataaaaacc taaacagaat ggtaagctng actcnaccaa 420
acatgacaca ttagcatgct ntcataaatt c 451

<210> 6762
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6762

agctntgagc aaattcaaac gatgataact nttactctct gatgtcggat tgagtcccgt 60
aatatatcga gagctcgcac attgataata aaaactctgt gaaaattcaa acaacgataa 120
ctttttactc agatgtccga ttgtgttccg taatatatcg agatgtcga aattgaaaat 180
ggaagctcgt agcaaagcga aaccacaata actttttact cggatgtcca attgtgtccc 240
gtaatatatc gagatgtcga aaattgaata caaagctct gagcaaattc aaacgataat 300

aacttttttac tcgaatgtcc gattgctgcc cgaagtatat cgagacgctc aaaattcaga 360
ataaatgttc tgacccaaat ctaacgacaa taacttttta ctcgcatgtc tgaatgaatc 420
ccgtaatata tcgagacact cgtaatctaa aactaaagct ct 462

<210> 6763
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6763

tattgtcgtt nngaattgct tagaccttat gttntcaatt tctagcgctt cgatatagta 60
cgggacacaa tcggacatcc gagtaaaaag gtatagtttt ttgaatttac tgagagcttc 120
agttttcaat ttcgagtgtc tcgatatatt acaggactca atcagacatt cgagttaaaa 180
gttatgggcc gttgaatatg ctacgagctt ctgttttcaa ttgcgagcgt ctagatatac 240
taaggcacac aatcgatcat ccgagaaaaa agttaatgtc gtttgaattt gctcagagct 300
tcggttctca attttgagcg tctcgatata ctacgggact caatcggaca tccgagtcaa 360
aagttattat ggttt 375

<210> 6764
<211> 394
<212> DNA
<213> Glycine max
<400> 6764

agcttcttct actcctgtat tagattatgt ttttactcta tagatgtttc actctatgat 60
gcagagcctc cacagaggtc atgttaatat catgccgagt cttcagagct gaggcctgcc 120
atttattatg agcacagatg agttcctgac tcaggtgggt tggccagtag accagccttc 180
tccttctgga gggggtggga tctccgtaac ccaagagcct gagcaggcaa cagaaaagcc 240
agttatagca taggatgagc tcaactctct ttagccctct ttaattgctg cagatacatc 300
tatggctcac gaagaggaat cttcacaata tcccatgccg gagccatacc ctccaaccca 360
ttcttcatga tgcaccagct actccagcgc tgga 394

<210> 6765

<211> 394
 <212> DNA
 <213> Glycine max

<400> 6765

tcttatccaa ggctcatcta ggtggagaag ctccttcttc catggcttat tccttaatgg 60
 atggcgcccta ctctcacctc ttttcctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacaccattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca agtggtaatc agagcacaag agcttcaagt tgggtgctcct taaacctcca 240
 ttaattctat gtgctttacc ttctcttcca ttatagtttc ttcattgttc tccatgtatc 300
 tcctcacatg tcttgtgcta aatgttggtta acatgattat ttagagtttc caccgattaa 360
 acttgctata aaagctagat ttgatgttca atgg 394

<210> 6766
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 6766

agcttcctaaa catccaagta attcaacatt cttatagcac atactatcac agccaagaga 60
 acagggcaaaa ggcagaaaac tctgccccaa acaccaacca aaatcacagc ttttctcact 120
 taaagacccc aataataatt cctttgttcc agttcggttaa cggttggatc gactcgcaaa 180
 ttttactgga agtctctagt acataagcct acattttgac cgttgggac tgctagcaaa 240
 cattcagaac tcattctgca ctaccctttc cacaggcaac cacacacaag catttttctg 300
 cacaaagcca aaatcctgct gcacctatct gacagcaaaa ttctgcataa gtgcagattt 360
 cgaaaatcac acttcccctc atgcgatctt gcccaaatca attcctacaa gtcccaaata 420
 atgtatcaat catgtttaac ccaaagtcaa gct 453

<210> 6767
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 6767

ctaagcttct ccaagtggtc ttcggcatca cattcaaact tgatccgttg ttgattagta 60

cctttgcgac aacatgggtcc atacatctca cgcacacatg taaagccttg ttgtgtcctc 120
 tcccctcaac ggggaatctct tcttccgaga acgcaataaa attattggtg gttatatgat 180
 taacgattcc ttcaaaaccc tccactaaga tatcatgggc tacatgggcc tcgttgagga 240
 cctttattaa tagcgcacga tgaggctcag agtttatgag tagttcaagc aatgagatcc 300
 ttgctggagt tttattcagt tgctcgacta ccttaaactc gcttttttgg atgaggcgaa 360
 ggaactcatg agcttcttcc aaagccacta tctttccttg gagaccctct ttcttttcag 420
 tcccttctac taccggagga atcacttctt t 451

<210> 6768
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6768

gtcacctgct gcatgcaagc tttagactaa aggatatcat gaatatttct atagttagag 60
 atgagattag gtcaggctcag accacgctag gctttatgta aataggccta gattgtttta 120
 taaaacaaag acctaagctt gacctattat ctattagagg cttttttctt tgtctagcct 180
 aaccttttta aaagtctagt atgacctatt agcttattta aaagctcatt ttatattctt 240
 tccaaagtaa aactcacacc acatattagt ttttcagcaa ataagaaact aacaatcaac 300
 aacatatttg catatttgat ccattgatca cgtctttcaa ttggataaaa ttatctatgc 360
 atacatgcta tgttcnnttt tagtattttg attcttcac cattaattaa gtttatgtcc 420
 agatcaaaaa gaagagaaat aaaacaacat ttattccaga aacttaacct gcaataata 479

<210> 6769
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6769

ngtcagatat tccttctcaa ctactacact tctctcaata taatacgtag atgtgtaatg 60
 ttagtagagc tggatgctga tcaaataact aaaataaaca aaaagtttca aaagctggaa 120
 gatgtatgtc ctgccatgga aaaaaaatta ctaagtgact aaagttcttc taagcagtga 180

aaaggagctc cgtgaaaggc ttgtgggttt tagtttttct gctttccgaa ctagcatgtc 240
 caatcaagaa gcanatccca natctggttg ttggtatcct gtnggactag cacagatgga 300
 acaattgatt ggttttagatc angaacattt acgtgaccag ttgaaagtca ttgcaccaga 360
 agttaagcat gagaaaaggt acttcttaga tttagatctt gtttcttttt ctatgtctac 420
 tgacaaatat tttcatactt cgttatcaca naaactttt 459

<210> 6770
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 6770

aattgagcta agtctattct tcttgttgat gcaccttact tgggtggatta gcacgccctc 60
 ttttttatgt gtaagcaagc tgtctattga gcttggtggc ttaatatatg atggactcag 120
 gcttaaataag cgccgtaatt aataattatt ctttataact ttattaggca tatgtttact 180
 cataatttac gatcctatct atcttctaata taatacaaca taatgatcag tctcctgatt 240
 tcttgcgatt gatcaatcca cacttcttat cgcagtactg aggggttctta tatgcatata 300
 cactacgagt gactctgtct attctccatc gacgctagat ttcagtagtg caagcctatg 360
 atggccttta tttcattctt actcttctaa aaatgagaga tgcgtctttg tca 413

<210> 6771
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6771

gcttggagtt tccagtgccca attcgtcttc ttcttttagtc cagtcttctt ctggcttcag 60
 ttcattagag ggctttcctt ctgtgtccag catcttggga tgttcccagc ctttgatgac 120
 agctttccag gttctgctat ctagtgattt gaggaaggcc accattcttg ctttccagta 180
 ttcatagttg gttccatcaa gaaatgggtg tctgttcact ggtcctnctt ctntctnct 240
 gttcatcaga aattatcttc ctagatctca cttagtgatt tcgagtgcct gctctganta 300
 ccaatgaaat tcttgatact gggacagatg tcgtaccgga tgtcacgaca tcatgcttca 360
 gaacatgcag atngtatgtg tccgtatgaa cagatttaaa caagttaata acacaagaga 420

attgttaacc cagttc

436

<210> 6772
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6772

agcttaatnt cagccttcat tacatccctc caacattgtn tttgaagggc tttctgataa 60
cttaaaggct caatgtcagc agataaagac attaaataat gattatgcga attagaaata 120
gaagaataag acataacaaa atgtaatgga tacaagcaat ttgatgaagt ttgagtaata 180
agattgtagt aacagtcaac gaggttgata gggggtttat cgattcaaatt ggagcgacgt 240
ggagggacaa gttgaggtag ggctctatct aagggtgggt aagaaaatga atcagaatta 300
ggatgaggca aagtgtcatt nttataaatc gagggtgagg gcgatttgga tgaggatgca 360
caagtgtgac ttatacgaag gcaaattggg ctcgctatnt atggattc 408

<210> 6773
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6773

tattaatata tgattaatat aattaannaa tatttgtaaa attagctgat aaattagttt 60
ataaatgtta atagcataaa aatacatatt taattattta attatatatg tatgtattta 120
atttgtttcc aataacgtgt catcataaaa actagggcaa tatttttttt aaaaaaatt 180
gtattataaa actataaaat gtttgagttg tataaagcat taattttcta ctaatttttc 240
tcttttttga acccaatttt tttttttgat atttttgtaa aagttaggga gctacatact 300
nttaattgta tttccttctt aacatggcat tccttcttaa cgtgaattat ctttatataa 360
atggcttntt tttttcattg actgaaaant ttaaagatcc gagtgcacaa atgacatata 420
tgatagtaag ttactgagct tttgttaaatt ttatacctga atntcatact taa 473

<210> 6774
<211> 189

<212> DNA
<213> Glycine max

<400> 6774

cgcggcagtg cagcgtttaa ttatactcgc cgagcttgat tggtatgtat gacagagtta 60
agcctatgac agatattaag tccaactcac gcctgatgtg ttcaactcaa ttcaagtttg 120
ggtcactcat ttctcccct cgtgaatgcc cacactgaca agcttgactc ctttcgcat 180
ttgatgcat 189

<210> 6775
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6775

tcgaacccgt tagtgacgta taccttactg ttcataacgc ttgatacacg aatgttgacg 60
gagatgggcg ccacttccag agatggaaga taagtcacgg tgacgccaca aggaatcaac 120
cttgataagt cagaatttgg ttcaacagaa accctgagag aagctttctc acgtatttga 180
aaagaatgtc aaaagtctct ttcatcatt ctgaagaaaa tatatatagt tcaccaaacc 240
ctaaaaacaa aataaattgg tgcaactaan aaggcatagg tttcagccac aaccaccaat 300
tttatgtatt taattgcaa gattaaataa taaaatagag ataaaaatta tggaaaacat 360
gggccttcaa tcatcatcaa tggcagatat acaaatgacc agtcttcgct ctattgacgt 420
gt 422

<210> 6776
<211> 426
<212> DNA
<213> Glycine max

<400> 6776

agcttgtgca aatcaagtca ctcccgcatt ttatctctag catgcattgt atgttggctt 60
cgtcctttgt caggggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc 120
actgcgcccc caaatgcaca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180
atgcattcat atcatgcacc acataagcat ctcttcataa catcataatg gacatatcct 240

gcatttgtcc gttatcatat tccagcctca cattttgcat gagtcatggc atcatcatgc 300
 atatgcgttc aacaaacttt gtgatctgca aaattgcata ccatttgta tcatgtttgc 360
 tcatccttgc ggtttcctct acaaaacaaa aacaaaaaag ggggaagcgt gagacttcac 420
 actaca 426

<210> 6777
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6777

agcctcaaag aggtccagga aggacaaggc agccgaagga actagtcccg ctccggagta 60
 tgatagtcac cgcttttagga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cgggagcgc gcgccagct cagggacgac gagtatactg atttccagga 180
 ggaaataggg cgccggcggt gggcatcact ggttactccc atggccaagt ttgatccaga 240
 aatagtactt gagttttatg ccaatgcttg gccaacagag gaaggcgtgc gtgacatgag 300
 atcctgngta aggggtcagt ggatcccgtt tgatgc 336

<210> 6778
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6778

agctttaga atggttagac atgatacatg tcatggcttg gtttggttca aggataaaag 60
 ggatgccccca cattatttcc atgacacaaa tgcaaaaaag atgatttgga aactttatgc 120
 aaaactggtc atgcatgcgc ctatgcagac gctcaagtgt caaatTTTTA tggtcagggtg 180
 atgctagggt tcaggattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
 ttcttttatc aatttgtgca ttctccaag tccatttcgg gcgtccgggg aaattttcac 300
 agcattcacc cttcagggtg agacacgttt tttcttcaaa aatctgttat gatcaatgaa 360
 tttnttttca aagaaaaggt ggaaatcatc tcttttcaaa agcatgtcng gtttttagcta 420
 gacaacttat tntctctttt tccaccttta tccttac 457

<210> 6779
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6779

ntatcaaatg gatgttaaaa gtgctnttct aaatggctta attcaagaag atgtatatgt 60
 agaataaccc ccagggttttg aaaactcaga caagcctaatt catgtttata aattgaaaaa 120
 ggctctatat ggattgaaac atgccccaaag ggcttggtat gagcgtctga gtaagttttt 180
 gttagataaa aacttttcta gaggtaaagt ggataccact ctttttataa agagaaaatt 240
 aaatgatatt ctactagttc aaatatatgt tgatgatatt atttttggat ccactaatga 300
 ttcactatgc aaggaattct ctcatgacat gcaaagtgag tttgaaatgt ctatgatggg 360
 agaactcaac ttctttcttg gattacaaat aaagcanacc aaagaaggaa tctttgtcaa 420
 tcaatcgaaa tactggaang gaataattca aagatttgga atgcaaagtg ctaagcacat 480
 ggctacacn 489

<210> 6780
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 6780

agcttcaagt tgcttgcata gcaactagtt atattcctac aaagcgtcct gtgatgaaag 60
 atccaatagg cttcttttgg atgggatgtg tgctctatca cgcaagattg catgggtcact 120
 agcagccgga ttctcaatta atcccatggc ttcttcaggg gtcttaaatt ctatttcttt 180
 ccctgcagaa gcatctaata gctgcttggc ttgaggccgt aaccctgtaa tgaaaatact 240
 gagtcggata ggttctgaga atccatgagt aggcgtgttt cttagtaacc cagaaaatct 300
 ttccaacacc ctactcaag gactcgtctg gaaattgatg aaaggatgag atgacagc 358

<210> 6781
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 6781

tcctagacat aagaatgcgc atcacgtaac aacttcttct gatgatgcc aataaggtca 60
 tgagggataa tctcagctac cttgaagtta gcagatggct aagtaaactc tctgtttagg 120
 tggtagcaaa gctcatatgt gcatcattta ggactttact ggcatagtaa atagagcgaa 180
 gcatcttata cgctctgtc ctagcactgc accaacaacg tagtcactag caccacacat 240
 catttcagac tctaggctgc aatttggggc cacaatcact ggagctgaca ccagcctccc 300
 tttcatggtg tgaaatgcta gcatacttc ttcacgcac ttatacacag catctttgtt 360
 cgat 364

<210> 6782
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6782

agctnnttga aaagactcat cccttcaaac cattttgaaa aggaacaaag ggcttatata 60
 tatgtgtgtc taacttcgaa aagaaagaga gagatattct aagagaaatt aattgccaaa 120
 tgctctctca acaactcttg ggaaaacact tgcaaataa ttgagaattc atccaagaac 180
 ttcaaattgt attatcatct ctaaaagaga gaaattcctt taggaacttc aatttgtatc 240
 gtccactcta aaggagagaa atctttctgt tcattctcaga aagtcatttg tagtcaagag 300
 actggttggtc tcttggattg tgagaattgt aatcaagaga cgggttggtat cttggagaat 360
 ctttgaacac aagggtgagg gatcccaagg tatgttcaaa gtctgtaaag gatttacaga 420
 gatagtagaa aatctcaagt aggttgcttg agaactggac gtagacat 468

<210> 6783
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6783

tctcccaaaa aatggtgtcg tcagcaaatg ggaggatatt cactagaact cttgttcttc 60
 cctaccaaga agctntggaa gcaatctttt attgttgctt ccctcatcat tctgtcaag 120
 ccttcaacaa ccaagtcaaa caatagaggg gccaaaggat ccccttngtc tcaaattctt 180

tgaggcttaa attcagaggt tgagcttcca ttcactagaa tagatataga ggctgatgtg 240
 aggcacccct taatccatcc aatccatctg tcatggaacc tcattcttct catcatatga 300
 naaaggaatt gccaaagacac taaatcatag gctntttcga aatccacttt aaacaccatg 360
 caggacctca tagacctcct angcctctca agtacctcat tagcaaccan aacaccatg 419

<210> 6784
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 6784

cagcataact gtagtgaatt ttatgtcgta tggaaccaag tggtgggagg cggaacaaaa 60
 gaataacctg aatttcaactg tgggtcatcac tttgaaggat tatgttgata acagcattaa 120
 aagagacatc atatattgct ttcactacat catcaggggc attctgtata aagcaacaac 180
 atactgagat gagaaaacca taaagataaa aaaatgtgct cagaggtcaa agatgacatg 240
 tttccaagta taattgcctt caataacatt gttaccaa ataatgatcc agctacaaaa 300
 ccatcagcct gctcttgggg ctataagaac atctacagaa gtgtataagc aacaaaatta 360
 ttctaaaata actaaccaga cactgtaata actcgaataa gtcatacttt attcaaaatt 420
 gttccaatat atggcaaaat tctagaaac 449

<210> 6785
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6785

ggtacgaatg taagagacat cttctacgac cttggtgatc cttgactcta tctcattgaa 60
 tcgcatgtcc actcgtaact ccaaagtatc aaacctttca ccaacaaagg tttgaagacc 120
 atcgaacctg tccaaaatct tttgaagaag agaggaatct tctccaccat gtaaagtgtcc 180
 ttcttcatca atgggatgag cacccttttt caccgaagag ccatcatgct ctttacngta 240
 accaaacgat gcaatcacat cagcgcctat tagaaagatc tcttgatgga acat 294

<210> 6786

<211> 326
 <212> DNA
 <213> Glycine max

<400> 6786

actcagctga cacctgtgca gtgagcctgc atgtggaccc tcaccttttg tttatgtagg 60
 tcacgaacga ttggacatca atccctttga atgtaatcat acatgacgtc acctattgac 120
 attagtctgc tatcttgatg aaaacaatgt cgtgttgaga accgacattg ctagattgct 180
 aagctaccaa tctaccatct cctattagct catgaatgga ttgacctata agaaccaata 240
 tcttgatctc ttcggttaca gaagagctag ctgaaggccg agacacgatt gccgttgat 300
 aggagacttc accattgtga atatat 326

<210> 6787
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 6787

agtcacctgc tgcattgcaag ctaatacact tgacagtagt cctaagacaa ctcttttgag 60
 cttattgtat gcacctcaga atgcatgcac acatctactt ttcaaagatg tttaaactat 120
 aagagtctat atgcaatgct gatcatgcct caaattatgc catccttaca acatgcattg 180
 ctaatggttt ggcataacta agactaagga tgtatactct acacatgtct caactctcaa 240
 gttgtcgcac cattaaattc tatcaacatt aatcttctaa tgagcccttt atgtgcgtgg 300
 ctacacattg aagaagcgat gacgccaatt gcagtcttac aatgaaccca ctttgtatgt 360
 ggatgcataa ggaagacaag atgttagaca ctgcaccatt ctaatgttgc taactcaaag 420
 tttcagaaga accaactatg tttgtcactg catatcgaac acat 464

<210> 6788
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 6788

acaaaccatc attgtttctcc attgaaaacc cacactgaga ggaacccttc aaccaaagcg 60
 gaatcttcca acttggctgg cggtttcggg agagaaggaa aacactaatc tgacctttcg 120

ttatcttcga gaggtctctg tggaatcgaa gagcaaggac aagaaggaat cttcaagtga 180
cacgacg 187

<210> 6789
<211> 454
<212> DNA
<213> Glycine max

<400> 6789

agcttcatgc tgaagtatgt atgacaaaac tttattactg ttattcaaca catacaagtg 60
agcttgtaac aaatcttcta cacttgaggt gataacatgc agtccttttg aacccttacc 120
gccactctg tcgtcatggc gagactcagg aaggccaata ggtttagcct tttcaatgta 180
ctctgaataa aattcaatgg cttcttctgc aatgtacctt tcaacaatag atgcttccag 240
acgatgtaga ttcttggtat acccttttaa gatcttcatg tattgctcaa ccagggtacat 300
ctaacgcaaa taaataggac cacaacattt aatttctctg acctgatgaa caattaagtg 360
aatcatgggtg tcaaagaaag taggaggaaa atacatctcc agttgacaca gtataattgt 420
ggcctcattt tccaggccat caaacttgac agga 454

<210> 6790
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6790

tgaagaggat gctntaatgg aggataagaa agagagaatg ggtgatcacg aaattgaagg 60
aataaaagag ggagagaagt ggaactttga agtgtatctc ataagactnt cattcatcaa 120
aggtacaaca agtgttacac atgcttctat ttatagacta tgtagcttcc ttgagaagct 180
ttcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 240
tagctacaca caccctcta ataactatgc tcacctcctt gagaagcttc cttgaaaaga 300
ttcctaaaga agctagagct tagctacaca cacctctcta atatctaagc ttaccttctt 360
gagatgagaa gctagaactt agctacacgc ncnctataat agctaagctc accccatgac 420
aaaatacatg aaaatacaaa naaagtcctt actacaaaga cgtactcaa 469

<210> 6791
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6791

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agcttcatgt cttcattcat tgtcgtgtgt ttttatcttt tataaggaca tggttgtaga 60
gaccacatt gttgttggtg gacttattta tccatcttgg tgtgggagta gagaccaca 120
ttgttcttgt ctacactcaa ctgcaccac aggggttgtg gctagtcttt ggacttattt 180
taatgatgcc ataaatatat cactgcgaac tgggtttaat tctattaaaa gcaccttagg 240
ttgtatacac atatgcacct atcaacccta gccaaaccag gttaatcata aaatgtatgt 300
tagagtgtga ggattctcta tgctatagta cctttgatag atcaatgtag tataagcacc 360
tttctcacat gaatggatgc gtagtatatg cattctaata accacaatga agatgatttg 420
tgggtatgat attctagcaa agaca 445
```

<210> 6792
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6792

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tataacanaa tntaatccnc ataacacana tggctttata tatttctaaa aatgagaaat 60
tgatttccag cagtcataa cctttgtaag gtagaaaata cctttgtgtg ttttttactt 120
ttaatattat gcatcatgat gatgaagtcc ctacattata tgcacttate atatattttt 180
tgtatcattc tgattttcaa tcaatttcac tctattagtt ttcttaattc tggttgttct 240
cttgggcaca taaaccagga aaaaaaagc tagtaataag atattgaaat tcanaaacia 300
ctacatatgg gtggaagtct gtgaaattca aggacttgca cgcttggtta gagtttattt 360
cactttgaat anttgncgca gtgggttagtt tgggggttga tcttggtcca tgtttgtgga 420
gtcatattgt ggggc 435
```

<210> 6793
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6793

cttaagtcac ctgaggcatg caagcmttga gccaaaatcc tgactcacca tatactcttg 60
 ttccanggtg agaatgtcaa tccttacccct cggaagcaaa atagaataga agggaaattt 120
 ccaatcaaag aaaagagaag gaaaatttcc aatgaaagag gaaaaagaaa agaattggaaa 180
 ttcccaatca aagagtggga gaaggaaaaa agaaaaggaa gacaattccc aaccaaagaa 240
 tgggagaaag taaaaaagga aggaagctcc tgggtcaaaga aaccacaaga aatgtgcaga 300
 gaggtctttg gaccacacga tatctgaaca gtacagaatt gtcactaaat gaacaaaaag 360
 gaaggaaagg aaaccacgac ctagaatggt cttctccctt taattaccaa ccaaaatccc 420
 gtgcgctagc gac 433

<210> 6794
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6794

tcaaaggtcg agatgttaga caagtggcct cagatatctt attattaggg gggtgaatta 60
 agatattcca aactacttcc ccaattaaaa atctatttca ctttcttttt aagttataaa 120
 ttcccttaac aatgaacttc ttaaataatta attcaaataa aaaaattgag tatgaatata 180
 aagcaataat aaacaaagga gattaacgga agagaaagtg caaactcaga attatacttg 240
 gtccgccaca cccttggtgcc tacgtncagt cctcagcaac ccgcttgaga gttcactatc 300
 ttgtagatcc ttttacaagt tctaacacac aaggacaatc ctntctttgt gttagaattc 360
 cttacaacaa gagaccacag t 381

<210> 6795
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6795

gtcacctgag gcatgcaagc tatagactgg acaagatgct cacatttttg ttgtatttta 60

aagcacaatc tcaatacatc gaggaacaat cttttgaata tctgtgaaca atgagagggga 120
gagacaacac atcactgata cacagtggaa tacgtttcta accaataata agccaaatac 180
gcatacatc aaccaaatta tattgattac acgaatacat cctttgcaaa tgaatccaca 240
actatcatat atataaccct cccaaaccaa gaatagaatn gcagctccgc cacatggacg 300
gctgaaaaag gccaaacttg atcatgaaaa gggctctact gtattagtca tttgagatag 360
agc 363

<210> 6796
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6796

tttatttatt tattttatfff gctaactaga ctttctccta taatgagttc ggtctctgaa 60
atactaataa taatacattc tttaatatc cgtttttttt ttaccactc tcttggttaa 120
agaaaatttg ttcgggcttc attaaatatg agaatctcat tattctatat gtattcgagg 180
agtcttattt ctaaaatggg ggaattaatt cacataaatn tcaagagagt tggtagatta 240
aatgtaacgg agtttgtggg gtgattcggg tcgattttca cataaatagt atttgaatta 300
aacataaaat aaatatgcga tttaatttga tttgatacgt ttaaatacac actaaat 357

<210> 6797
<211> 321
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6797

agctntataa gcgcgggtct gggagtagct atgttttgtg gtcgcgatat actaagataa 60
tgttccgagt acattgtatt tggtagcacc ttgcccttct gattttcagc tggggaattg 120
gccagtggag gaacgcccct acatttacac agcgagcata atgtacacct ttacggtttt 180
ataaagctat atagttgggc ctaggcttta gagttcttct cttggttaat gcttggcgta 240
tcttgatttt aaaaatataa tacaaggagg tttattgata tgttcctacg cctctactca 300
ttctcatcca tttgcgagtg a 321

<210> 6798
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6798

ctaacacttg cctcaaata tccacatgaa ccatctcatc ttgctatag attagaatgt 60
 catcaaaaaa taccaaggca aattgcctaa ggaatggcct caatacgtca ttcataaagc 120
 cttgaaaagt tgatggagca ttggttaagac caaaatgcat gaccacaaac tcataatgcc 180
 ccttatgagt cctaaaggct gttttctcaa tatctgaatc tttcattctg attaggtgat 240
 atccagcctt cataatcaat ttagtgaaga tagtagctcc accaattnca tccaaaggct 300
 cctctattat tggaattgga aaattattac gtatggntat cttgtttaaa gctcgataat 360
 ccacacaaaa tctccagccc ccatctttct ttctgactta gataatangg ctagaataag 420
 gacttatgct angccttatg acccctaatt ncatcatntc cctaaccatc ctttcat 477

<210> 6799
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6799

agctntgctg atttggctct cgccagtgat ttgatcgatg tgggtccgaa aagaggcaaa 60
 ttgatcatc ctactaggac gactgagaaa actggggcaa atgaagaggg tgagaaagag 120
 ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaccaacaa 180
 tgtcattact cagccaataa caaacctcct ccttaccac caccagtta tccacaaagg 240
 ccatccctaa atcaaccaca aagtctgtct accgcacttc caatgacgaa gaccaccttt 300
 agcacaacc aaaaaaaaaa aaacaccaac aaaaaggaat ttgcagcaa aaagcctgta 360
 ggggtcaccc caaattccgt gtcatatgct aaacttgatc ccatatctac ttgataattc 420
 aatggtagcc ataaccctag ccaaggttca tcaacctcca tt 462

<210> 6800
 <211> 436
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6800

taatggatga aggggttaatt ggtgtatgtg ttgcctaatac atatattgac agccctaagt 60
tggtttttcgc ttagtaaatt aaaatagggt tggattaagt ggttaactgt tagggacgaa 120
ttctccataa cctangacaa gagagtggct tctgaataag aggaaacaac ccatttttaa 180
tactattaat tttgtattct agtttgcttg ttctttatct cacaaaacaa acaaccccc 240
cctaatacgta ctattaatgc aagtatatta tgaacatttg gttatcattg ctcgttggga 300
aacgacctan gatcacttcc tagttattgg catttcatgt ttattngatt cgggttnggt 360
ctcaatcaca tattcaacta tttttgctac ctaaattaac acataaatga acanggcatt 420
tttctaccta aataac 436

<210> 6801

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6801

agcttgtcca taagctctnt ntcatagtag gatgtaatgt gtatttttct aagggcactc 60
ttaagatcat tccaatactc aactggagga tcccatgaa tccttcgttc cctaacaagg 120
gaagtccacc aatagagggc atacccttga aagctaagg tagccaatgg aacttttctc 180
tcttcgctaa tatgatagca agaaaagagt tgttcaacct tcatttccca atctaagtag 240
gcctcaacat tatcttttcc atggaaatat gggaggctaa cgttaacctc ttgatgcctt 300
ctatcctttt cttttcttta ggagtgtgtg ttagtatgtg aactatggcg cctctataa 360
tagttgctaa gttcttcact taaatcttgc aagagtcatt actactatag gaggcattgt 420
nttctctttt catttcttcc attattnttc ttctttcttc ctctc 465

<210> 6802

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6802

ngagtgaagt taagcattct aaacaataac aaaaaatagt gcttaattgg tttgtacata 60
 tacattatct ttaacattgc catgtagctt gcacaagata tatgaatcca ctttagttat 120
 tttatagact taaagtttaa tgtctaagct attgaactta attaaccttg ttccattact 180
 ttctttctaca atttataaga ataattaaat taagacatgt taaaaacggc attggataat 240
 gatgtcttgc aagggggcacc tanactgaga agacagggag ggccaatcac aaaaaataaa 300
 cacatccaat annatttttg ctgaataata cattcaacaa aatataccat tatttttata 360
 caaaatatta taattg 376

<210> 6803
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6803

agcnttgtgt aatcgattac acatatttgg taatcgttta ccagtgttng tttctgaaaa 60
 atctaaagat gtaactcttc aaaaaggttt tgactctttc aaatggggtt taagcttttc 120
 taaaagatat aactcttctg aatggctttc ttgaccagac atgaagagtc tataaaagca 180
 aggctttgtt ttgaattttg aatcaattat tccaagtctt tctaacaatc tcttacaatc 240
 ctttactagc cttgaatctc tttaaacttc ttcttcttcc ttgtaccaaa agttttctga 300
 agttttctgg ttttctaaac cttgaaaact tgtgctattc atccttttca ttctcttctc 360
 cctttgccag aaagaattca ccaaggacta atcgctgaa ttcttttt 408

<210> 6804
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6804

tatgcacata tttccttacg aacgttcaact tgcacaagac attctattat ctaagaaaaa 60
 tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacatgt acttccaagg 120
 tgtatttggt acttacatca cacacatctc cttggctaaa ttacatata tgcataactca 180
 aagcattttg gggtagcaaa aattgcacat gtgcacatct tggattttct aataacctata 240

catacacana cttcatgatg aa

262

<210> 6805
<211> 425
<212> DNA
<213> Glycine max

<400> 6805

agctagcctg tccaatgcag cagtaatgat ggtccgagtt atggtgagga acggctacaa 60
accagaatg ggtttatgca aagacaacga cgtgataact agcctgatat atgccaaagg 120
aaatcgaggg aagtatggtt gatgctataa acccactcat gcagatataa agagaagcat 180
cacgggaagg aagagcgggtg gtcaaagctc gcggttgaga caagaaagtg aaggagagccc 240
gccctggcac ataagtagaa gctttataag cgcagggtctg ggacacgaag gtcaagtgggt 300
cgccatatac gaagatgatg ttccgagtag atcggatttg gtacgggtcat gccctcctga 360
tttctagctg ggaaactggc gagcggagga acgccccggc atttacgcaa cgagcataat 420
gtaaa 425

<210> 6806
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6806

taagctcgat gattacatct ccacctttct caagcaaatt cttcttgata tcatcataat 60
cttcatgatt tacattctcc ccctttatga tgatgacaac cacctgtagg ttaggagcaa 120
cagcaaagaa aatatctatt tgcataatagt ttactcccc cttgggtttta cattgattgc 180
ttatatgaga caaatgaaga tttcatagtt ttcatatata ataaagttgt ctcataaaac 240
aatagataac ttcttcttac tagtnaatct tatatctttc tctcccgtt tgtcaacatc 300
ataaacaat catgaataga gaggagagag atgttaccac ttgttgcaat gtatgagaat 360
caagtgatac caaaaggcat tataaacaat cattcaatat taatcaagca aaaacacgta 420
caataacaca tcagtcatac acaatcaaata acaatcaatc atc 463

<210> 6807

<211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6807

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aaaatcatgg ctaagagaaa aatagtgtag aacgaatcat ttctttccct caagcagaca 60
atgttggaca agtggctcta ataacttaag agaggggtgaa ttatgttaaa atttcttggt 120
taattgactt ctaaactctcc ttttaaactct atatgttaag actattgaag atgatgataa 180
agatgatagt tatatcaaca taatacttca agtgtgcaag ataaataaaa tatgcacgat 240
aaagtaatca agatagggaa gagaggaatg caaactcagt ctatccatct tggttcagtc 300
acttctgtg cctacgttca gtcctcaagc aaccacttg agaatttcac taactttgta 360
aaaatccttt ntagaacttc tgaacaccg 389
  
```

<210> 6808
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6808

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ctgatatgga tattagatta aaggtaaaag ctggcacata ttatacattg tgtagggtaa 60
tgagtgcaga aagttgtact atgcctaagt gggtagcatt aacaagatgg ccatttggtta 120
gcttaacact aatgggacta atttgacgat atgaataaaa atttggttaa gaagaagaaa 180
catggtcagt ggctcctgaa tctaagatcc aagaggtaga gttggattta ttcgtaagac 240
aaaaccatac ctgttggatc gttattggtg caagacgaaa tagaggcaac ctgtgggttta 300
atggacgctg aggttccggc cgacggctgt tgtattaaag ctagaagtgc tatgtactgc 360
tctgatgaan aacgaacctg ttcttgtgat tcttggggat agtattggtc atctgtggcc 420
ttcccttcag ttgccactac actatta 447
  
```

<210> 6809
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6809

acgatgatgt taagaattaa atattataaa gcaaatccgc caaaggcgag ttaagaaaaa 60
agagacaaaa gatctccaaa ttttacaagg aaggcacaaa agtgcaataa agattaatga 120
ataagacaaa aggagtagat cccaaccccc ctaaaaaat tgaaatgaat aaaagtacaa 180
gcaagacact caaggttctt actcaatata acccttaaat actctttgag tctctctgat 240
cgtttctttc atagccctct taccatgac cacgttgcaa gcccaataaa gcccatgtgg 300
atcaaggaat gacntaattt tcttttaagt ttagaatatg gaatggaacg cgcacacact 360
tgtgactatn gaaaaaaaat aaaanaataa taataataaa ggagaatcct cgaggggttg 420
cactttcata ttg 434

<210> 6810
<211> 472
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6810

cgcttgtggg gcatctatgg aggctggatc tttaagcttc aatgagggtct tttaatggtg 60
attttccacc atggagatgc agcgaaagac aaaggagaag aggtgagagg agacgccatc 120
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240
cacgaaattg aaggaataaa agaggtagag aagtggaact ttgaagtatg tctcacaaga 300
ctctcattca tcanagttac aacaagtgtt acacatgcct tctattatag actangtagc 360
ttccttgaga agctntctta agaaaacttc cttgagaagc ttctttgaga aaaacttctt 420
gagaagctag agcttagcta cacacaccca tctaanaact aagctcacct tc 472

<210> 6811
<211> 322
<212> DNA
<213> Glycine max
<400> 6811

ctgctgcatg caagcttctt atccaaggct catctaggag gtgaatctcc ttcttccatg 60
gcttattcct taaaggatgg cgcttccttt cacctctatt cctttgtctt ccgctacatc 120

tacctggggg aaaaccacca ttaaaggacc ccattggagc tctaagagcc accctccata 180
 caagccccac tagcatgttt ccatcacaat gtacacgtct ttagagggt acacgcccac 240
 gcctttagag gactacacgc tctctcctta ggaggactac acatcctcac ctttacagga 300
 ctatacgtga atccttggtt tt 322

<210> 6812
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6812

ttacaaagt gtagttctag tcgctaact tangctctta aatttagtac acgctcatga 60
 ttttcttatt cctataatct atacatcaac atatcagaga tatttttatg tgtaattatc 120
 tagtgttgct ctgcttccaa attaatgtat ttgataaacc atacggaatg atcatgtcat 180
 tggccgataa ttagatgctt acggggctca tcaacaagtc cattgganat aagtatgggc 240
 ttgcagatgt tggtgacttt gtgagaatga agtgagtttg tgaaactagc taag 294

<210> 6813
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6813

agcttagatc aggcattcca gtcaaagctt tgttgtcttt aatatgcatg ggcattncat 60
 atcaactttt aatcgatcatg agatattacg ggcctcaatc ggacatgcca gtcacaactt 120
 tagcccgcca gaattcaccg gagtcttcca tgttaaatat tgagcgtctc gatagggtgac 180
 ttggcttatt cgaagatccg gaggagaagt tatggctggt cgtatttgcg atgggcttta 240
 atattatcct aagagcttct ccatatatta tgagctctaa tcgggaatcc tagccaaacg 300
 ttatggctgt tccacattgc gtggtcagge cattcatact tttcagggcg atga 354

<210> 6814
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 6814

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acttagaaat caagtgatca tgtattccgt atatatatgt tgagaaaacg gatgcacatt 60
ctatctatat acagntgttt gctgggtgct tgaatcttga tttcacgtat tgtattgtca 120
tcatcaaaaa gggggagatt gtagatgcaa ttggctctga tgttctgatg atgatcatga 180
tgatgtgttg caattgatgc aaatgggctt ttcaagaata aaattcaaga caataacttct 240
agattacaag tcacaacatc cagatgatca ctagaatatt angaaggga tccctaattga 300
ataacacagg ttcgccaagt gattaaaata aaagtgtttt tcaaagggtt actctctggt 360
atcgattaca naggatgtat cgataccagt ggcaaatacg tttataccac tataaaattg 420
gatccaattt aaacctgaat 440
```

<210> 6815
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6815

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caagcttgag atattnttaa gccatacaat gtctttntaa tttgtacact ntgtcttctt 60
ggccatcaac ttgaaaacct agaggctgat caaaaaacac atcttcttca agaggaccat 120
ttagaaaagc agacttgaca tccaattgat gcattggcca ccttctcaaa cttgcaatta 180
caactacaag ccttattgta tcaatccttg ctactggagc aaaaatttca ccataatcca 240
caccttctct ttgcaagaaa ccctatgcta ctagtcttgc cttgtgcttg accacctctc 300
ctttgggatt cttcttctact ttaaagaccc atttaactac aatagctctt ttccctttcg 360
ggagagtcac aagatcccag gtatgggttct tcttaattga gcttaattcc tcttctattg 420
cttgaatcca ttgaggttct tgcaatgttt cctctac 457
```

<210> 6816
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6816

```
ggctctgaag gaaggggtccg tcaaaattta tctgatcata attatggaat ctgatgtgtc 60
```


tagggctcac gattcattcc ctctatTTTA gtcaacccaa tgTTTccaaa atatgttctt 240
 ttatccattt gtgcattcat ccgagtcocat tttgggcgtc tggggagaat tcacagcgtt 300
 cacccttcgg gtgtacacac acattTTTTT ttaaaaaacc agctatgatc ggcgaatttc 360
 ccaaagaaga gttggaagtc atctctTTTc aaaagcatgt cggTTTTTca gctaaataac 420
 ttatttctct tttctTTTTc ctcttt 446

<210> 6819
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6819

agcttggact tncTgtgttc tgggaacctc tttttcttta agtgtacca aaccaatca 60
 cctggttcag gcacgactat ctttctgctt ttgttggtt gccttgcata gctcgcattt 120
 ttcttttcaa tttgagcctt cacttgctca tgcagcttct tcacatactt agctttagtc 180
 tatacgtcct tatgcttaac cataacaatg ttaggcatag gcaacaaatc aagaggagtn 240
 taaggattac ccccatcac tatctcaaat ggtgaacaat tacttTgtgct atggataagc 300
 cgattataag caaactcaac atgaggcaaa catgcttccc aagattttaag atttttnttc 360
 aaacaatcct 370

<210> 6820
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6820

tgtagccatt agaatagaat gagcatgtga ttgtaagtat tactgaaaat gttagttagc 60
 ttgtcagatt gattatgaag gaatgcatta actgtatcct ggtgagagtg tgatccttaa 120
 attttgagag aaacgactat catttagtac tgatttttgc atgaatcttt gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagc cacttagcca 240
 aaatgttgac catgtgcttg aatgaattat cccttgTacc cagtttgagc tgaatgcatt 300
 attgattgat tgaaccctga gcctatacag tgttatcttc tactaccttg acttcggttg 360

taggagagca tcatccacag gaagcatggt tcanagcaca attgtcctaa atttggggag 420
tatta 425

<210> 6821
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6821

agcttctaca taaagcttat taanaattgc ttttagaact tatcgggtgtg tcaaaactca 60
taagccatta ttataagctc aaatatatca catgcccgcc aagagcatag tgttggtaat 120
acaaacaatt ttcataatat gctctctcta accactccgt aaacaactta aatgcagatt 180
acagccaact tctgaagaca caagcgtgga aaatatatta aacagtgcgt gaactataaa 240
actttgtgac agccaaggac aaatgtacca ctaagaatat cttgcgtaag ctatgcatac 300
ctcataatac cctaaccag attacctctg aaatattaac caatgaaagc atcgtgccta 360
atctataact agaagaaaat gcttatgg 388

<210> 6822
<211> 314
<212> DNA
<213> Glycine max

<400> 6822

tatcagaagg ggaatggtaa aataccacct catgctgata tttataaggt ggcaaagtgt 60
ttctattgca agatgcaagg acacatgaaa aagaattgcc cggggttcca aatatggctt 120
tgcaagaacg gtaaatcaat ctcatataata tgttatgaat ctaatatggt tagtggtaat 180
attaacacct ggtggattga ctctggatct actattcata ttgcaaattc tatacagggt 240
atgcaaaacc taaggaaacc agtgggaagt gagcaaagcg atttatcaag ctataagcta 300
tgctcacatg tgga 314

<210> 6823
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6823

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 tgtttttatg ctatctcttc ctnccaaata cattcttcat tctttctctc tgagaagcct 120
 ttctttttcc cgcatacact caaatctatc ccaataaaac tacgatcccg aactcgttga 180
 ccgttgata atcctaaaat atgaacacca ccttcgaaac tcatttacac acatctgcac 240
 cattggaact tgcaaaataa tgtatgcaga tagataaatg atccttgac aaagacagtg 300
 aaattgaggg cttaatctct tctcctctct aacacttaga aatcctagca gaacaactag 360
 aggaaaaacg tgagaaatct tagagaacta ctagacacat cgatatcact gctagagtac 420
 acacgtgagc ccgcatataa gta 443

<210> 6824
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6824

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 ttatgtcttt cctccagatt atatgtcacc cccacgaat tcagagtgtg ttctcaagtg 120
 agttataatt attgaattca ataattttgt ctttaaccat aaaaaaaagg gtcaaataga 180
 ataataataa taataataat aataataata gtagtaataga acaagtcaga ttttgagttt 240
 ggtacaataa gagcaccttt ctttggtgtt tttcaatnca aaaatcaacc ccagaagatc 300
 cgccagattc ttgatgaaat ctgtcggatc ttgctgtcca aactgtcaga tttccttggt 360
 ggcatattgt atccttctcg actatgat 388

<210> 6825
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 6825

agctataacc tcattgtctc tcacagtctt tagtatttgg gatccaatcc aatccttggt 60
 ttccgactct cagccactta tgatagccgc cgatgatccc attactgctt ccctaagct 120

ctctgtcctt tcttcacgtc gcatcccatg ccttgcgaaac tccttgaggat accctcgcg 180
 tgtgggtcact gaaaccccggt gtgatgaaag gcgtgatgct tttgtctgat ggcaactcctc 240
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 ttcccatcaa gggaacattt ggacatcctt cgcatagaaga tagaatcctg attcttcctt 360
 ccttctagcg agggaaaccaa ttaacagatg ctccttcttt gcttgctaag aagtgatccc 420
 aattcacctc tcgtttctca gtgcatgaac ggtggctttc taatg 465

<210> 6826
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6826

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 tcaagaatca aagagtcctt caatcaagaa tcaagattca agtgaagatt caagagaaga 120
 ctcaagatat gcaagaactt caagaaaagc atcaagataa gtataaaaag attctttcaa 180
 atgaaaagat tgaatagcat aaacagaagc acaacaatt ttataactgt ttcacaaagt 240
 agtaattgat taccatgggc atgtaatcga ttaccaatgt ttttgaatgt tggatttcaa 300
 atttcaagag tcacaacttg tgataaaaca ttttcatatt tgtgtaatcg attacacaac 360
 atttgaaatc gattaccagt gtttctaaac attggtattc anatctaaac atgaagagtc 420
 acatctattg atgtgtaann tgatacacta aatggaaatc aata 464

<210> 6827
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6827

agcttgccctg tccaatgcag cagtaatgat ggtccgtgtt atgttgggga acggttacga 60
 acccagaatg ggtttaggca aagacaacga cggcataact agcctgataa atgccaaagg 120
 aaatcgtagg aagtatgggt taggctataa acccactcag gcagatataa agagaagcat 180
 cacgggaagg aagagcgggtg gtcaaagctc gcgggttgaga caagaaagtg aagggagccc 240

gccctgccac ataagtagaa gctntataag cgcaggtctg ggagacgaag gtcaagtgg 300
 cgcgatatac gaagatgatg ttccgagtag attggatttg gtacggccat gccctcctga 360
 tttctagctg ggaaattggc gagtggagga acgccccggc atttacgcaa cgagcataat 420
 gtagaccttt acgggttttaa aagctctata gttgggcct 459

<210> 6828
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6828

ngcatgatnt acatctccac ctttctcaag caaattcttc ttgttatcat taaaatcttc 60
 atgatttaca ttctccctct ttntgatgat gacaaccacc tgtaggtag gagcaacagc 120
 aaagaaaata tctatttgca tatagtttta ctcccccttg gttttacatt gattgcttat 180
 atgagacaaa tgaagatttc atatttttca tatataaaaa gttgtctcat aaaacaatag 240
 ataatttttc ttactatatt atcttttata tttctctccc cctttgtcaa catcaaaaac 300
 aaatcatgaa tagagaggag aaagatgtta ccacttggtg caatgtatga gaatcaagt 360
 ataccaaaaag gcattaaaaa caatcattca atattaatca agcaaaaaca agtacaataa 420
 cacatcaatc aaacacaatc aaatacaatc aatcatcaaa tagttcaaat caaatttaat 480
 a 481

<210> 6829
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6829

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 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120
 ggtggtcggt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc 180
 tggaggaaat agggcgccgg cggtggacat cactgggttac tcccatggcc aagttcgatc 240
 cagaaatagt ctttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300

tgagatcctg ngtaaggggt tagtggatcc cgtttgatgc cgacactatc ggccagctcc 360
 tgagatatcc gttagtgcct gaagagggcc aggagtgcga gtatggccag aggaggaacc 420
 ggtctgatgg gttcgaatgag gaggccatcg cccagctgct atgtatacc 469

<210> 6830
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6830

ntgcacgtat cagtcaagtg tatggaccat atcgtagcca atgtgctcat cgataatggt 60
 tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcttccac 120
 ctaaagccga gttcaatggt ggttcgtgcc ttcgacggca cccgccgaga ggtagggga 180
 gagatcgatc tcccagtaca gataggccct cacacctgtc aagttacctt ccaaataatg 240
 gatatttaac cccctacat ctgtctgttg ggccgtccgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcactc ggtcttcgta 360
 tcaagcgagg aagacatctt ggtgagctgc ccacctcta tgccttatgt ggaggccgca 420
 gaggagtcac tagaaaccgc tttccagcct ttcgaggtgg taagca 466

<210> 6831
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6831

agcttagaat ntaacttttg tcaccattta ttcttcatat aaaaaaaaaat cagtaattga 60
 gtttcagttc ttgatcttga cattatcacc attgttggtg ttgcttgata aaaaagaatc 120
 aaaatgtttt ctctatagct ttgtaccgag agagagactt ggctggatag gttagtctct 180
 aatatgactg attcaccttc ttgtatctgt gttctacaca taagataggg atatgggcac 240
 ataagaggat aagcccagcc cattgcatgt taactgtcat tttcaaatga gtgctacaaa 300
 catgtttggc cctgcttaat tgctatgttg gtgaaaatga tttattttta tgtgtttcag 360
 tgattatttt gtatacaaaa ttgcaatgat ttgttttaag gcttaatgaa ttggcctcaa 420

caaaaacaaa tgagattaaa aaanaaatga gaattacaaa aaaatctttc t 471

<210> 6832
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6832

tataagaacc aaaatgcctc aatcaattcc aaatatgcat gtgaattatg aagcatcaac 60
 aagaatcaag ccaaggctat tgagcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gttaaactcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatact ataattcana gaaaaacatg 300
 caaagtcgta cacgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
 aacaacatta acaaaataac acaactaaca aattaacaaa accaacaaaa ctagcaaaac 420
 tgaagaacac tccccccccc cccatactt aaacaacaca ttgtcctcaa ttagcacaaa 480
 ataaat 486

<210> 6833
 <211> 365
 <212> DNA
 <213> Glycine max
 <400> 6833

agctatagaa tggctatttt tccctcctta tgttcttttc caatacttag aaagcaatat 60
 tttgtaattc gtattaatta tgtgccatt tttcttgaaa ttactatct tgtaggggtg 120
 ggcattgatt tgattttcat aagtccaatc cagatccatt taaatggatt ggatttttaa 180
 tccagatcca tattttgtaa aaaaaacaat ttggattggt ttgatccatc ttaaattccag 240
 ttttaaaatc aaaaaccatt ttgcctgaa cttaatcgag gcaatttttg gccgatgtcg 300
 ggcgctgtac tttttggtcg acattggtca gagctatttt cagctgacat cagttaagat 360
 gacta 365

<210> 6834
 <211> 434

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6834

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accttcattt caacctctat tctttctctt actactaagg tggaaaatag acttgtgtta 120
atataaggcg tgtcatttcg attatttaag ttgtgattga aatgataaat aattaaatac 180
atattatctt atctcacttt attatctaaa aatatacttt tgttttggtt tcaattacgg 240
aattctaata tatattattt ttattttttt ccgctataat ttattatttt tgatttcaat 300
tctcttacac atttaccggc atgttcattc aagtagagtt agtctcatat cccttaaata 360
atgtctcata ttgatccgt aagacatctt gaatgaaaat nttttaagca actcatgtta 420
aatttcttaa acac 434

<210> 6835
<211> 455
<212> DNA
<213> Glycine max

<400> 6835

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ttcactcaag ctcaagtgat taggctcatt ccattataaa caactaacac aagtcctaac 120
ctttgcattt catctcatat catacagaaa taaaaacaca aaatgaatcc gaaggacttt 180
ctaggcttgt aatgagggtta ggctgccaac aaatcatggt tgttctagga ttcaaaagct 240
taggttctag gagagcatcc atccatagat aaaactttac tttttcattc attcctaccc 300
caatacttgc tatttttttag gcacttagct tacattgatt tgatttgcag cacacacact 360
tttatacatt gttattttata cttacagtct tttttaacat atatatagaa atagtatgtg 420
tatatacaag aatgggtgagt ggatgctatg tactt 455

<210> 6836
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6836

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aactttggtc ttatcttact gaattgnggt tctgcttata cttccactgt gttcgattga 120
tcacatgatg aagcaatgca ttccaggggtg gatgtggaag ccttccaagc tgccttaaat 180
agagatatag gtanacagat gcnacanacaa ntttataact gtttcacaaa gtantaattg 240
attaccatgg gcatgtcatc gattaccaat gtctttgaat gttggatttc aaatttcaag 300
agtcacaact cgtgataaaa catcttcata tttgtgtatt tgattacaca acatctgaaa 360
tc 362

<210> 6837
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6837

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tctaattccat gtaggatgat ggcttaaata ctaatccatg ttgagcaacc aattcaaact 120
tcttgtcaaa ttcttcactc tttgtcacat tgaagggaat aacctgctt taaagtaatg 180
aagaaatttc ttgactagct tctccctca aattattgaa aatgttggtg atgggtgtatt 240
gagtgtcac tctcttacc ttaaaaatat tgtcatgact cccaccact tattgctttg 300
aatcctttct caccatcttc ctcatcttct ttgggccttg gtctccctc atctacctta 360
atcttttcat taatctctct tgcaaggta agtttaccac attcgcttcc tcacctcatc 420
actgacagct ttgaagctaa aacatccttc tgtattcatg c 461

<210> 6838
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6838

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ataagcaact aattacactt attacttctc tgctattcgt ctttggcncg gatgttccac 120
ctagggaaaa aaaattatct tctcttgata aagacaagca aaacttttct tcttagagac 180

aatatatcag ttacagaaaa tgtcataaaa aacatacaag acattggtaa tcggcacata 240
 taaggaattc ttgaattttt ttctcacaat ataatcaatg tcattggtaa ataaggacta 300
 aggacttaac tgtccaacat attaaacaaa tcaatgttga tgcataaatc attgatctaa 360
 agaatcagga acaaaaaact aagtgtgaagc aatcaacata 400

<210> 6839
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 6839

gtcacctgct gcatgcaagc ttgaagtttg atgttggaga taaatattat attctatttc 60
 ctctcccttt gatgttgctt ggctagccat ggagaggtaa ccatttcctt ttctctctct 120
 tgactccatt tttgagtttc acatacagca tccatggaag ctgataaaaa aaacataggt 180
 ttcgggttta tgatcccat actggttaatt cttacgtgat gcttttgtga tgagattgct 240
 attgtagtgg aggaagcata tgctcggacc caaagctcat tcctttatcc ttcttcttca 300
 cagagcgctc ttcatgatcc catagaagta agggaagttc accctttttc cttgctttat 360
 gatgagtctg ggctgggtga ctogaatcat ggggtgcggg tgggggatt 409

<210> 6840
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 6840

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 tttggcctaa taggaactcc aatattgatg cagcttctga tgttatgatt ggtttggcca 120
 caccttcac atgtaaagtc acgcaatact ctctttaccc tatgtccttt gacattgact 180
 tcatctgcat ctctccttct atttttctta ggcttctctc tctggaactt tatatgtggt 240
 ggaacacgtt gtgcatactg gtgttgggcc caatattgcg gtccttggac tggctgaata 300
 aaatggtgat atgtcttatt ataagcctct atggacagcc agtcatgaca catgtcctca 360
 ggcttgctc ctttgtgact taatactgta atggtatgtc 400

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<400> 6843

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agactctcat tcatccaagt tacaacaagt gttacacatg cttctattta tagaataggt 180
aacttccttg agaagctttc ttgagaaaac ttccttgaga agctagagct tagctacaca 240
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tacacacacc tctctaatag ctaagctcac ctccttgaga tgagaagcta tagcttggt 360
gcacaccccc tataataagc taagcccacc ccattccaaa aatacataaa aatacacaaa 420
aaaagtcgct actacaaaga ctattcaaaa tgcctgaaa tac 463

<210> 6844

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6844

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cgagtacatt ggatttggtg cgaccatgcc ctcttgattt ccggctggga aattggcgag 120
tggaggaacg ccccgacatt tacacagcta gcttaatgta aacctttatg gttntaaaag 180
ctctatagtt gggcctaggc tttagagttt ttcttttggg taaggctttg tgtattttgt 240
tttttaaatt tataatacaa ggatctttct tcatctgttc ctacgcctct acccattctc 300
antccattgc atgtttactt ctttatttct gaaacgacaa atccgatgac gagtcccccg 360
aaggtactaa tacctgggac ccgcctatca acttcgagca agaaacgaat canacggaag 420
atgaaggga cgangatgtg ggacttcccc cagaattaga aagga 465

<210> 6845

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6845

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ggaatttctc cttaggatta attgtgtttt cccaaatgat ttgatccttc ctctgggttac 120
 taatagggaa aacacacaag gataagtgtg agaagaggct tcatgagcac cgaaaatccc 180
 ctgaagacct tccaacccat tgttctaaga gattgcaata gtaaacccaa aactttagtt 240
 ctgtcgattc cctagttcct tccccctcat aatgggtgga ggatttttct ccaagaattt 300
 gaattcgtag aatatgattg gtcatgggtg cgtttctgtt gtcgtccaag acatcatggg 360
 taatgtcaac cccactccta attgggtgtg ctactccgag ctgtacaccc tgaaatatac 420
 taattataaa tgatgttaat cgtattatat gt 452

<210> 6846
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6846

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 ttgtaataat gtgtccaacg agacagcttg gcaagcactc attgtagctg gaacatactt 120
 agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattgggtg 180
 tgcaccatac atgaatatgt aacctatagt actctttctg tcatctctgt ctccctccca 240
 atccgcatca gtatatccca ctaattcctc tgagttgttg ttgtctttat ttggaaatag 300
 aattccagta ttgatgggtc cttttatgaa ccttagaatc ctcttagcag ttaggagatg 360
 aggaattctg ggtcttttcg tatatgtact taccagtcca atagcaaatt ccaaatacagg 420
 tctttgatga cacaagtacc tgagagaacc aacaatatgt ttgaac 466

<210> 6847
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6847

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 agcaaaacag ggcaaaggca gaaaactctg ccaaaacacc aaccaaatca cagtttttct 120
 cacttaaaga ccccagtaac aattccttcg atccaattcg ttaaccgttg gatcaactcc 180

aaaattntac tggaagtcta tagtacataa gcctacattg tgaccgttgg gatctactag 240
 aaaacatcta gaactcattc tgtactactc tttccacagc ctaccacaca caagcagttt 300
 tctgcacaaa gccaaaattc tgctgcagcc tatttgacag caaaattctg cataagtgca 360
 gatttcgaan atcacacttt ctcttattca atcttgccca gatcaattcc tac 413

<210> 6848
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6848

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 ggatggtcgt ttctccgaga gcgacgcgtc cagctcaggg aggacgagta tactgatttc 120
 caggaggaaa tagggcgccg gcggtgggca cacttggtta ctcccatggc ccaagttgat 180
 ccagaaatag tccttgagtt ttacgccaat gcttgggcaa cagaggaagg cgtgcgtgac 240
 atgagatcct gngttagggg tcagtggatc ccgttcgatg ctga 284

<210> 6849
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6849

ctgcaataga tgccactnnt actcaatttt taaatgatat gttgacaagg aaacacaagt 60
 atattcacia ggagaatatt gttatggaag gaaattgcag tgctatgata caaaaagatc 120
 cttccaccta accataaaga ccctggaagt gtaaccattg cttgttcaat tggatgaagcc 180
 acccggggaa aggcctttcat tgatttggga gccagtatta acttaatgcc actctccatg 240
 tgaagaacat tgggagagtt ggagatcatg ccactagaa tgactttaca acttggtgac 300
 cggctcatta ccagaccata tggagtggat gaagatgtgt tggttcgagt aaaacattnt 360
 atcttcccag caaactctat ggtaatggat atctatgaag ataatgac 408

<210> 6850
 <211> 389

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6850

agcttgagat gaggaagtgt agaaggggtga aacttccttg ctttattcgt tgaccataga 60
gtggtacctg gagatatgtc gcgngggtca tgagaccttg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccg acccaacccg ggcatagtca gtcagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcagtaca cagataaaac gaacaaagac 240
cacaaagcan ggaggcttgt gtggtggctg gccaaactgtg aactttgatt atatgtgaga 300
tatggcctct ggtaatcgat taccaagggg gggtaatcga ttacaaggct taaaaatgaa 360
gacaggaggc taagatggtc tctggtaat 389

<210> 6851
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6851

cggccccccg gnatgactgt gactacggac cttgatacta agcttacaga ttatgttgtg 60
cgaaggacaa tggtttagaa aagcaaattt ttatgctgtt gatgatagaa agcctagggg 120
aatggagaaa ataaggagga gggagaaacc catgtgtgac agtcgttcta catgggcaga 180
tttccactag ctcacaatat taatactcag nccaatatca atccttctca tttaccacca 240
ccttaccagc caagaacacc caatcatcca caaaagcccg cctaaatcag aacaaaccca 300
ccgctgcaca tcaaagcaac acaccttata cgaccaaaca ccaccaagaa ggaatttcta 360
gaaaagaaac ttgtagaatt caccctaact ctggtgggtg atgctaactt actcccatat 420
ctactcaata atgcaatggg agccataaat ccagcaaag actccttatc ctcatn 476

<210> 6852
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6852

taacattctg gtttgctgat tgacatgttt ggtaaaaaat cttgcataga gcagaaatat 60
 caaagacana gtagtacaca tgtttttgta tattggaaaa aaaataaatc tgacattggc 120
 tacagaaaag acaaagatag aatatataag tgagggacaa ttctcatccc ctgagaattt 180
 ttgggggttga gttagtccaa actcacattc tgaaagactg taaaactgaa tttttggcat 240
 ttatgtacaa ctacaagaga aaagaattaa taaaacacct taaacaatca atgtgagttg 300
 caggagatc tgagattcat cttgactgga agaggagact ccgcatngct cttggttccc 360
 gcagaggact tgcatactta catgagcttt gcaacctcc cataantcac agagacgtga 420
 agtcgactaa tatatt 436

<210> 6853
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6853

agctnttcaa agaagccacg aggaagcttc ttgatgaagc ctcttantga agcttcttga 60
 ggaagctaca tgagctgcct cggtaaaacg cttcccatnc ttagttaaac gttggctctt 120
 tagggaaatt ggtatccagc tttacaagac acttgtccac gatctgaccg ttgggatctt 180
 caagaagatg tctggagtgt gtgcgatgtt tctgtgtccg agaccatttc tcaactaagc 240
 gttttcagcc tttgctctcg tgtagcttag gaaaaacacc atttcttctt ccttctttct 300
 tcctaagcca tttctaacgt cccaagcact ttctccatca cccacagcca ccgtagcca 360
 ccacaaact 369

<210> 6854
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6854

tccatcaagt ggtaatcaga gcacaagagc atcaagtagg tgcttcttaa accttcatta 60
 attttttgct ttaccttctc ttncattggg ggttcttcat ttttctccat ggatctcttc 120
 acatgtcttg ggctaaatgg ttttaacatg attctttaga ggtttcaccg attaaacttg 180

ctatagaagc tagatttgaa tttctatggg tcaaatttct tgttcttggt cttgaaccat 240
gaattgtgtt gaagttaagt tcctttgagt tctggcttgc tattttttgg ggctgaaaac 300
taaatcataa aattcttaca aaatcattaa agtagaagaa aaccttaaaa atctagagtg 360
acttcgtcac ctattgtagt tttgttatag aagtcatgtc tagtcatgaa acttgtcaca 420
taagatttct tat 433

<210> 6855
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6855

agacttgat gcaacattgg agaggttaat gaatcaacga gatgatgctc tccatgagag 60
ggtggatcaa atggagaata gagatcataa tgaagaagaa aggacgagaa gagggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaactc aacattcctt catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaan atagagcatg ttttctcatg 240
caacaactat g 251

<210> 6856
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6856

tntatataag ctgaaccatt ttatcaataa acacatgttg agttttattc agaanattag 60
agtttatctc ttttatctta gtgagagcga ttctnctaaa ttcttgagtg attcaagaac 120
accttggtg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
attctttcct tcctttcatc atcaccttg ttctttcaaa ccacaatttc agaaaatcca 240
cctctgcca gaattatctc gtgggcataa cttccatttt acgcactcaa attaagtgat 300
tcttgagcct aaatcgaatt tcaaaacgag acctttcacc tcgttctgga atcacctcat 360
ttggagccct gtagcttcag ttattggcat ttctatattt ctgtccagcc accacttaac 420
ctaccgttta ccattccatt ca 442

<210> 6857
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6857

agcttcttta gaattgctgc cagtaccatt tcctaattctt tcagagaaga tatcagcata 60
 ttcaactatt catatctatt ntaactttct tttgatgtct tggatgttga agcttccacc 120
 tatgtccaac aagtctgaag ttacgggatg aatttgtaaa tcatccatca tcacgtaagt 180
 tttttcacca tatttcttct ttggaaagaa aatgccccctc cacatttgga tagagaattt 240
 taattgagaa aagtaattta tcagaagaat tgaatttctg tattgggttg attntttttg 300
 tgaagaaatt aaaattttgg aatttttaaat aactaanaat ctgaaatttc aattttcttc 360
 taaaatgtga gaaaatgaaa ttctattctt acag 394

<210> 6858
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6858

gcaattaaac gaaataattt tacgcacatg tcatattgag tcccgtatat atcgagacgc 60
 tcgtattgaa aacgggagct cgttgcaatg gcaaccgaaa taacctttta ctcggatgtn 120
 cgatttgagt ccgtaatata tcgagacgct tcaaattgaa aacagaagcc ttgagaaaat 180
 tctaacgaga attatttttt actcggatgt ccgatggagt tccgtaacat atcaagacnc 240
 tcnaaattga aaacggaagc tcatagcaaa ttgaaacgaa agtaactttt aactcggatg 300
 gtccgattga gtccgtaata tatcgacacg atcgtaattg aaacaaaagc tcgtagcana 360
 cgcanacgac aataacattt tgactcggat gtccgactgg agtcccgtat atatcgagac 420
 gct 423

<210> 6859
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6859

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agcttgccat aggagggaat gtgttttagtc attagacatn tgtgtcttaa gacaaatgag   60
gacccttaat tatttngatt agatataaac aaatacaaag gttaaaagct gcatcttatg  120
ccctatcaaa acatgttttg caaattctgt gtttgatgnt ttagacgata tcaagatgaa  180
atcatgatct gatacaacat taaagatgaa atttaagact tcatttaata ctttgtgtct  240
gagatatatt ttgcaaagac attctcatag gatctattga atcctatgaa gaataaatga  300
agtcaagtta tg                                                         312
```

<210> 6860
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6860

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tgattctgta naanaaaaca aaactgaaaa cttaatccca ttctctcttc ggttttcaaa   60
ctctcttata tatagtcttt tatttttatt tttaatgtat aatattatct ttgatttgt  120
taagcttgac gaaattctca gtcattagag tgattgaatt taaatttaat gtttctaact  180
ttagagacta aaaaactgtc attcattaaa gcacaaaata cgtaattac atgtaggta  240
taagaaatta tatattcttc taaaaaaagg aaattatata caagaaatta aattccttct  300
ctgtaattga ttgaagcca                                                         319
```

<210> 6861
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6861

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agcttttagaa gaatatcggc ttctgtttat caactgncct acttgaattt ccaagttctt   60
gatagtagac tctgtgctct tgtgattgga catagtaacc tgcaagaact gaacacaagt  120
ctcttccaac ttggttggtc tctcataaag gctaggcgct cgtatttgag gctgctgga  180
tgatcctacc tgggtctttat tgaagtgggt ttccaggatga gacctccatt gcccttgatt  240
ctgattaaaa ttggaacctt gctggtaacc tactaatcct ctaacattaa atcctggccg  300
```


gtgctgattt cccgtataaa tcacctcctt tgcagcttca tcaagagata tacagcaacc 360
agattcatga gctcttccat atatgctaca tctccaacc tac 403

<210> 6862
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6862

tgaccctggt aganaaatga agataatgag cttactacgc tttagctcta tagcttgagc 60
tcaacctctg aataanaata aagaaaagac tctagcaaaa ctttaagcatt agagcttaag 120
ctcgagccta taattaaag aagaaaaatc acttaccagg ctttaactga ggctcaaaga 180
anaattaaga aaataggctt aagattgacc cttgaagaaa aatgaagaan agactccgac 240
aaaacctaag ctttgagat taaactcgac cacacaagaa tgaagaanat gaacttaca 300
ggcttaagct ttacaactta agcttgaact tgaaagaaac atgaagaaca gactntaaca 360
aggcttaagc tctatagcct aaagttgatc cttg 394

<210> 6863
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6863

agctttatat aagctgaacc atnttatcaa tatagacaag ttgagtttta ttcagaaaat 60
tagagtttat ctcttttata ttagtgagag tgattctcgt aagttcttga gtaattcaag 120
aacaccctgg ctgtatcaaa ggactttcac aacctttgtg tgttgcctc gccggaaaga 180
gtgatttttt ccttcctttc atcttcaacc ttgttcttta aaaccacaat tccagaaatc 240
cacttctgcc cagaattatc ttgatgagga catgttcaag agcaaggga aggatccact 300
tgaaggactt ggaggaccta tgacaagggc tagagcaagg aaagccaagg aagctcttca 360
acaagtgttg tccatactat ttgaatacat gccacggtt caa 403

<210> 6864
<211> 314

<212> DNA
<213> Glycine max

<400> 6864

tatcgagcgt ttcgatatat tacatgactg tatcagacat ccgagttaaa cgctgctgtc 60
gtttgaattt gcttagagct ctggtattcc atttcgagcg cctcgttata ttacgggact 120
caatcagaca ctcgagtaaa aagctactgc cgcttgaatt tgctcagagc tttcataata 180
aatttcgagt gtctccatat attacgcgac tcagtcagac aaccgagtaa aaagttatgg 240
tcgtttgaat ttgctcaaag cttccgcatt caatctcgag cgctccaca tattacggga 300
ctcaatcaca catc 314

<210> 6865
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6865

ggggggggttg aattaaagat attccaaact tttctcctaa taaaaatcta tcttactttt 60
acttaagtat gaatcccttt atgacagtct tcttanatat taattcaaata gaagcaactt 120
gaatatgaat ataaagcaat aataaataaa ggagattaag ggaagagaaa atgcaaactt 180
cagtttatac tggttcggcc acacccttgt gcctacgtcc agtcccccaag caaccgcgtt 240
gagagttcca ctaacttgta aatttctttt acaagttcta aacacacaag gacaaccctt 300
cctttgtggt tagagattct ttacaaca 328

<210> 6866
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6866

caatttaatt tttcttacca gatgaacaat taagtgaacc atgatgtgaa taaatgaacg 60
aagaaaatac atctctaact gacacaagat aatagcagcc ttccatcata tgagttgtct 120
ncacgtgtca tcggaactga ttgtcttttg atgacaaggt gagactaaag tagtctcggt 180
tgatagacat tgagtcttcg acgaaaagaa cagatgacca tatttgtctc tgcgtgtcat 240

cggacttgtc gtctctagat gac

263

<210> 6867

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6867

agcttcggtg ggctgccaaa ttctcanaa ccttttggtc tcgaaatgaa cacttttaggg 60
gtcgacatgg ggcgcgtcct tgtccaatat ggacatccaa tagccttctt tagcaagacg 120
ttctgtctga aactccaaaa ctcgtcgacc tacattaggg agctcggtgc cattaccacg 180
acagtcaaaa agtggtgcc a ttacttattg ggccatcact tcacgattct aacggatcat 240
agaagtctta aagagctaata gactcaggtt gttcaaacac ctgaacaaca gatgtattta 300
gctcgtctat tgnngtacia ctattcaatc cagtatcggg caggcaagac caacactgcc 360
gctgacgccc tatccagaat cacggaacta gtagcgggac aatntctaata gctaacaata 420
ccctaaccctt tgttttttt 439

<210> 6868

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6868

tgaagaacta caaagttcac ttgaagcaca tgagcaaaga ttaagagaaa ggaatcctga 60
gaagcacaat gatcaagcct tacaagccca aacaagcaga aaatttgaca agcaaggaga 120
caaatccaaa aataaaaaag gaaagtggca tgatgagaag tggagaaaga ctgaagattc 180
aaaatgtggt gattctggat catcttcaca gaaagctgtg tcaaatacaa gaagccaatt 240
ctcacgaaa aagaaatggg tcgacaagaa gaaggtgcag tggtacaact gcaggaactt 300
tggccattnt gcagctgatt gtagattcag tagaggattt caagtgaag gtgaagaagc 360
aaggttggca caagaggaga atctagaaga tgatcattat ctgctgatgg ttaccaccaa 420
aatgatctt cagtgtgcta acttctggta cct 453

<210> 6869
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6869

agctntaacc tcacgtccc tcacagtctt tagtattggg agccaatcca atccttgtgt 60
 tcggactctc agccacttat gatagctgct gatgatccta ttactgcttc cctaagctc 120
 tntgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta ccctcgcggt 180
 gtggtcacta aaaccccggt cgatgaaagg cgtgatgctt tcgtctaatt gcgctcctct 240
 catggnntag ccaagctggt gcacaacaaa caattcttgc gccgctcttt tcacatcccc 300
 ggtcgaacgt gtcatacatg gccaaaat 328

<210> 6870
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6870

agcaacacan aatctaggta tccaaaaccc ttatattaat ggatnntcaa tggttgagaa 60
 agtgaaattg agaaatggga taaatttgag caaactctca cctcacacaa gtctattaca 120
 tcaatttaaa cttgttcaaa ctggatttta cgctaaaat tcaccgaatc aaaatttgac 180
 tcccaacacc caaatttacc ctagaaatgg ctctttgttc actttgggtca tttgtttttc 240
 tctctagcac agcccaaact ttctcataag tcctaaatgg catttcaagc taggattaac 300
 tcaacttaac ctccaaatac cactaaatcc agatttggcc ttccaactct caaagtctca 360
 ctcttttttc acttacaaca ccatactc 388

<210> 6871
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6871

agcttcgcac gtaagatcat cgcgtcagag aacttaacca tttataaaaag aatgggtgaan 60

aatatatntg taaactttatc gaatcaataa atgctatgga gggtagctat tttttatgat 120
tctgtagatc atgatcttgc tcatgattat attttaaag ctttaagaat gaattctgat 180
tctattcttt atccagaggt aattagttct ctgggttggt tatcacanag aaaaaataag 240
aatcagaat tataactttc aaaatagcat aatagactcc ttatagagta taaagatata 300
taatcggaat taatattggg cataaccttt ttttcgcatg tctcttttat gttggcaatt 360
acatcattag aaatcattaa ttattaattc aatacaagat catatttcat gtgtctctat 420
tatataaag 429

<210> 6872
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6872

cttcactaga gagatatgag aattgggtgtg tctttttctt ctgcttcta ctccttttat 60
aggtctaagg tagcttattt ttcattgtga ctgcgacta aacgcgcact cctgggctta 120
acgagaatgg cggtttaatc acgtgctcaa gacagtgtgc gcactaagcg cagccttggg 180
cggttctgtg ggctttcttc gtgctaagct ggtcgctaag cgagcacgca cgttgggcct 240
gtctcgtgcg ctaaaagagc tgttcatnta ttttaacttt tcttcaaggc tttttctttt 300
ag 302

<210> 6873
<211> 189
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6873

cgagtatgaa atgagtgaac gccatatatc ttgcatatac attgcttgta tctttgattc 60
aaaaattaaa ttgtcatcat acaaaagggg gagattgtag aaacaagact ttgcctttga 120
tgtttgatga tgcatatgat catgatgttt gatgccttat aanatgcctt ctcaagntaa 180
ttcaagaca 189

<210> 6874

<211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6874

ctaagcttga tgcaccttat aacatattgt ttgattgcaa ttttgactgc atctttacta 60
 tcaaattcca tgccaacata taattcttgg ccaacattaa agttcgacgg catctccaaa 120
 ccgcaaagtgt ccttctcatc aggataagtc cagttgatat tgttataatg tgaggcatca 180
 ttccaaaatg gattttcaat tcgttgtgca cctaacagtt caaaataaga taaaaaatcc 240
 aataatactt atttagcatt aaatacaatt gtcacaaat aataaatgta ttgtctaatt 300
 nttttataca acacattata ctttctgctg ggtgaacaat tcttactggg tganngaagt 360
 tggtgacttc atcgtctgtg tcagatatat cgtcaacact gtcactctcg tctaaagact 420
 cttcaacata tgagttagac acaagaatat catcatcatc a 461

<210> 6875
 <211> 95
 <212> DNA
 <213> Glycine max

<400> 6875

agcttggaga gaagtgagat agtggtcgtc tattacatgc catacgccgt tgaggaacag 60
 agggatcgca agatatcttg cgtgtacatt gctag 95

<210> 6876
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6876

agctgttagc attgaatttg tgctaccagc ctatcactat tcactataat aaagtgtggt 60
 ttaatctata gaatagatgt tagatataga caataattta attatgactg acctgngtgt 120
 ttttttggca gctaactgaa aaagtactcc ctattgtgaa gaagcaaaag ccaccatgta 180
 tactccgtag ggctcattcc ttgcaatggg agatcaaaat tgctaggggt gcaagatagg 240
 aattgaatat taaccacatc tattgtggga catgagcata ttaatcatca tctcttaaaa 300

atcatagttc tcagcctaataa ggttactcct accatgacaa gctagtcaca attctcaaata 360
 tattcattca ttttttcaaaa aactaaacct acgtagttta aagtgtctac tcgctcccct 420
 agccttaaga aacaatcctc at 442

<210> 6877
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6877

agctgaccgc taaacgagggc gtcattgctgg actttgtttg cacgctaaac gagatgcaat 60
 tgnccctccga attcttgcatt caaattttgc attaatattaa cttccaaaca cttgcaattt 120
 cccttctttt gaatcctgtt ggtccagaat taaaatgata tcaaaatcct cattattctc 180
 ttaaaaaataa atagtaaagt cgaggaaatc tagtcattct tgtttgattc gactatcaat 240
 taaacctaaa tttcacagat atcatgatga agttagagat tctaatgagt tagatactcg 300
 agatggaagt gacgatgaaa gtaatccaca agtcaaattt ctcgatttaa cgtgtctgaa 360
 aatgatgaag atgtaagttt g 381

<210> 6878
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6878

agcttcacaa acacccacgg gacctttcat tttgcagcat cttcaagctt tttctgcaca 60
 tttgcctcaa ttattttttc attccctaca tccattcaa gtaagtgcc tctccatcta 120
 attntacctt tgccttgaga tgtttggtgc tttgtttgtt gttatctttg taatgtttgt 180
 gagatgagtt gtgtgtaaac ccatgggtcca atgctttgat tgggtggctgt actagatggc 240
 tctaggccta tctttgtttt tttttttaca gatttgcattg tcatgttgct ccttatccct 300
 catatataca tgcattaaca tatgcacacc aactatntga tgaaataaca caattgctat 360
 tctacgtgnn tatttgatgc ttgaaatggg taatgatatt acacat 406

<210> 6879

<211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6879

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ntctcccaag tectanatga catttcaagc tagtattaac tcactntaac ctncatttac 60
cacagaattc agacttaacc ttncaaccct caaagcctca ctctttttcc actcataaca 120
tcacattctc acttttctaac cctagggttag ttctaccctt catctctaac agttttccat 180
cagcaatttc agcatataaa catcacaaac atcatcacia aaaccctaaa acagaatggg 240
tatgtttaac tcatccaaac atggcaattt caacaagctt tcaacaagag tcttcacaaa 300
taactaccat gaagcagaaa actaacaaaa ctacccatca tatctncaa aaccccatc 360
ccacgaaaat caaaagagaa agaagtcacc cacacctgaa aattcgaagt cccactcgta 420
gacacgcact tcaagacttc gaaaatggct ctctttcgcg 460
```

<210> 6880
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6880

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agcttaaggg attgtttttc cttttaatct atttatatta aacaaactac tataagaatt 60
aagaaagatc tgttntggaa ctttcccata taataaataa tgcaaataac accgccttcg 120
atctatggaa gctactccaa ttcccacat atgaatacaa aaactaaagt tacctcggcc 180
atggtgacgc acattttctg tctccattcc aaatcttcca tcaccatctc tggacaattt 240
tcattttcca ctttcatttt caacacgcaa aagtaatacc aattaatctt cttgttcttg 300
gtctcgagca ttagtagtac ctggaacctt ctctgtcgtc taatatcata tttattcgat 360
tctagctttc tagtactctt ctcaatcaac cagcactat aagggtttct cttgataatt 420
tctgctgctt aatctcaatc atat 444
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<210> 6881
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 6881

actctagcat gcactaaatt ggtgtggatg tctttattat tcacgctgga ctaaagccaa 60
actatgtgga tgggtataag tattgaattc accaatttca aactttaatc atattgactc 120
ataaacactc ctaattctta ggactttttt aactttattt tggctttctt tatacgaaaa 180
aaaaatgcta acacataata acactatgta acattttatt tt 222

<210> 6882

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6882

agcttctaga aatagatgtg tgtgtgtggg tgttattcag nccccanaa cataccacaa 60
acatactagg aagggaactca gcactcacct gctggtgtgt cgcattaatt atattgatca 120
gttttggacg gaatatggca acattgatgg tttctagtat gaaaataaga ctaaacagaa 180
cccatgctcg ctctggagta cccgcaatgt gatgcataca agtctgcaca actgaagcca 240
ctttctaagc ccatgtatcc tcaattcttc acataatgaa atttgattag gcatggcatt 300
gcaacactgg cgttatcagt atttcattat atctctatct gcatcatgct actcctttga 360
acaatgccag at 372

<210> 6883

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6883

tcctagcgta cctctgattg ctcaangact tgcgatccat ttcttcggtg tatgtgtggt 60
gccagggagg tggttttggg tttcttgatg ccattttcgg gactttttta gactgggttg 120
atgcaattgc tttctgcacc tctttnttcc tattgcagtc cttagaagac aattcttatg 180
cgcacttcat tgcggctgtg acaattcaca ccgtacctta ttggtggcat aagagcctta 240
catgcaatct gccttggtat cttaaaaaat ggcattcgca aatttgattc aatcgcaatc 300
caagatccga tgaaagggtg ttatttaaact actataaaat tttccctcac cagaagaatg 360

attttaatga ttcgat

376

<210> 6884
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6884

agcttgggtg atgttgcgcg tactgatggg taccatgagg tgtttgctga ggtttaaccc 60
atgcgggtgt tgaagagacg gcatgggcat ctcttcctt cctttntgcc cctgttgccc 120
cgattctttt ggcgttcacg tttgtggagg aaacgtaatc aaacttttct ctcttcaatc 180
caacctcgat tctttcccg gcaaacacca aattcgcaaa gctggacggc atgtaaccga 240
ctatcttctc atagtacaac actggcagag tgtccaccat catggtgaca ttctcttctt 300
aaccatggga 310

<210> 6885
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6885

ttctcccat tntcctataa ataggggaag aggtgaaggg ataaaatggt cagccctcct 60
ggtaattcga gaatcacttg aaattagtga aaaaaattgt ttccgtgaag aaaatccaag 120
ccgaggcgct tccgtaacat ttccataacg ttccgtggg tgatttcgcg aagattttca 180
accgttctc aacgttcttc gttcgttctt catcgttctt cgggtcttcaa ccggttaagta 240
cccaaaatcg aacttttcaa ttcatntat gtacccttag tggtectcat ttgttttcac 300
atgcttttat cttcatttca ttactttnc gtatccctt ttgacgtgct ttagtcattt 360
tcttaagtca ttctctcgcc taat 384

<210> 6886
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6886

gtcttaagca ctgagctgca gctataagaa ttggtcataa aatttaagtc ctaatatgct 60
gataanaaca cnccttaate tttctttcct tcttcaccgt ntccttaact tgatgcctnc 120
attatttctt tctcttgcat cgacgaagac cagtaccaac catatgttaa ataatggtag 180
catgtcggat gagtataaaa tatatataat atcacatgat gtnctctaataaaaaattag 240
acattgaatc attataactnt cctctctctn tctttntcaa tgccccacca attttttgct 300
ataaataccc aagaaatcat cccgttttct cacagacttc ctttgctcan agccaaacca 360
aatnttctct ctttcactta gttattgact ccccaaaagc ttttcanata tctctgggtcc 420
tctctcacgt accttctccc tatctttcac tccacttctt aacaccacaa aaca 474

<210> 6887
<211> 492
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6887

cacgtttgaa ccgtcacnncn ctgannccct tgaataacgc gcactatgat actaagctct 60
ctaaatctac gnggtattta ttgacttcat cgggttttgt atcccttgaa tgggtgagat 120
atatatgcct tgtagaaaca ccctgggatg gaacatncta ttattttttt cttgtgctgg 180
gggaatcata tagactatat aaaattcgcc cttttagaag atggaatatg gaattttttt 240
tttttaatgg gagaggaaat aaatttgaaa ctttgtatta atattcttca agtaaaaaat 300
taaaaaaata ttattgtgga aaacaagatt taaaaaacta ccaaaataaa ttccttctaa 360
ttgtgggtcat caaagtcaat agatgctttc cgtgattgcc gtcaagacta aatggagctg 420
agtgactcaa tagatgacca ctcttggtat ccccttttcc acccaactct tctttcttaa 480
tgatacaaat cn 492

<210> 6888
<211> 466
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6888

agctntgctt ctacaatate cnccttttnt gatgatgaca gcttctggaa tcaagaaaca 60

cacacacaca ctttntccta gtcgatctct cacataaaat tccattcttc cccttttggt 120
 tntgaaatnt atgctttctc ttaaaattaa agtgattact catgtgagtt cttgatttaa 180
 tccctatttc tcttcnctt tggatatcaac aaaaagccaa agtgcataac aattttgaag 240
 cattcaaata taactaagca tccatacaac attcatggaa aaatatcaac caaatcatga 300
 agcaagaacc atgaagcaac aatcatgaat agattaatta taaaatccac atagtcaa 360
 aacatactnt aatattgttc aaacaccatg canataaaga aatagggaaa tgttcanata 420
 tcataataat atagattatt tggataagtc actgacatct attagt 466

<210> 6889
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6889

ctccaaagtt ntctggttnt tctaaacctt gaaaacttgt gctanttcatt tttttcatct 60
 cttctccttt gccaaaagaa ttcgccaagg actaaccgcc tgaattcttt ntgtgtctct 120
 cttcttcctt ttccaaaaga acaaaggact aaccacctga attcttttgt gtctcccttc 180
 tcccttggtca aagaattcaa aacgacacag tctaagaatt cttttgattc ttccctttcc 240
 cttatacaaa agttttcaaa ggactacccg cctgaaaatt cttttgtatc cccattcaca 300
 aagtatcaaa ggtttaatcg cctgagatct ttgtcttaac acattggagg gtacatcctt 360
 tgtggtacaa gtagagggtat catctacttg cgttggtgat tgagaacaag agagggtaca 420
 tctcttggtg atcagttcta gtggaggg 448

<210> 6890
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6890

agcttagacc cttatagcta tgatgcagaa gaaatgaaga aagtgatagg cattgctttg 60
 ctgtgcactc aagcattggc tgcaatgagg ccaaacatgt ctgaagtagt agtcctactt 120
 agtagcaatg acttacttga gcatatgaga ccttccatgc ctatcattat tgagtcgaat 180

ttaaggcccc aaagagatat ctcttcttca actgcttcct ctacgactaa tgcaactatc 240
 tccaattcaa tagtaccgcg tcgatgatta aatatatgat gtaaaantnn atttttttgt 300
 ccagttcatt attaaggatg attattggta aatcttactt a 341

<210> 6891
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 6891

tactaagctt atgatgaatc aagaatgatt ctacgagtct tgatgataac ttagatgatg 60
 aaaaaagct caaaagtcaa gatcacttca tgataacaaa gatgatgaca ttcaagaatg 120
 agttcaagtt tgagttcaag attgagtcaa gaacacttca aggatcaaga gtcaatttga 180
 tttctagaat caagattcaa gaatgaaaaa taatcaagat caagattcaa gactctaaga 240
 ttcaagaatc aagataagta ttaagaagtt tttcaaaaca ttgagtagta caagaagtct 300
 tcacaaaatc attaccacag agttttactc 330

<210> 6892
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 6892

ctataaattc taatatcttc ataccctact ttaacacac gatacataga aacaaagtgc 60
 aggtgaatca caaatttcgt cttcaaaacta ttactctctc cgctaaataa atgctaaagt 120
 aataacacta ttcaaggaat ccctagagta ttgaatattc atcaattgag tccttacgtg 180
 gatgtattgg tttactgttt aaggaatatt gtgaggggta ttctaattatt aaagggaaaa 240
 ctttgtctaa tttctaataa ttatacgact acttaagtag ttcgttttac tataaggata 300
 ttttacttaa ggtgtgggca atcttcatca ta 332

<210> 6893
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 6893

ctaagctatt atctggggta caactagata cgatacatgg ttttaattta cgactttatt 60
ataactacgg ttacactcag ggtctacttt gagcccttat ccttttacct tgatgttgga 120
tatgcttatt aaacatatcc cacagctaga gctacaatgt gcgctttnta caaatgggtat 180
agcttttagtg tgccagtggga gatcgattat tcgtacgatt accgtaaaaa gatttggaag 240
cacattactt ctgattatgt atgaacaaaa tgaagcatgt ctaatggcag ttcatgaaga 300
ccaacactat tgccactgta tacgtgaaca ttgaaaatca cacccttcca ctggtctcaa 360
cacgtcttgg atcta 375

<210> 6894

<211> 193

<212> DNA

<213> Glycine max

<400> 6894

tattacacaa cgtggcggac aaaagtgggc agtttacttg aacggtcatt attgtccatg 60
cggaaggat tctgcgcttc actatccatg ttcacatatt attgcaactt gtggttacgt 120
gagcctgtac tactaccaat atatagatgt cgctatacaa atgagcacat cttacaagct 180
tactccgcac aat 193

<210> 6895

<211> 349

<212> DNA

<213> Glycine max

<400> 6895

ctaagcttct aaagagggtta gcttagttat tagagacgcg cgcgtagttt agctctagct 60
tctcaaggaa gcttcttaaa gaagcttctc aaggaagggt ctcaagaaag cttttcaccg 120
aagctaccta cgctataaat agaagcatgt gtaacacttt ttgtaccttt gatgaatgaa 180
agtgttatga gacacacttc agagttccac ttttctccct cttttattcc ttcaatttca 240
tgctcccacc ttctctcttt cttttcctgc attaaagcat cctcttcaag cttcttatac 300
aacgcacatt cttggtggtg aagatcgctc ttccataggc tattcccta 349

<210> 6896

<211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6896

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ctaagctntc tcgcggttc tttgagaagc tttctcgagc agcttctatg agaagctaac 60
gttctaacta ctaacaccct tgtaataaac taaaccacc tccttgaaaa taattacgga 120
taaaaataac acaacaata taatcaaaca tcaagcataa ttactaaata tatatagata 180
tatatatatc aggggtgttac actaagcgcg agatcagtgt gctaagtgca gtanttgtct 240
tcaaccaggc tcagcacacg actagtgcta agctcaaate cactcactcg cgctaagcgc 300
gaggggtggcg ctaagcgcaa catcgtgaat tcaaagccta tttaaagtct gtcttgtgaa 360
aattacggta caagttttat aataaccagt gcacaaaatt ccacagcaca ccacaatgcc 420
tatttc 426
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<210> 6897
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 6897

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ttacaacgta gtgactggga aaaccctggc gttacccaaa ataatagcct tgcacgacat 60
tctctatcg cgcgctgggc gtatatcgaa tatgcccga ccatcggttc ttctcaacag 120
ttgcgcaacc tgaatggcga atggcgctg atgcggtatt ttctgcttac gcatctgtgc 180
ggattttcac accgcatatg gtgcactctc agtacaatct gctctgatgc cgaatagtta 240
agccatctc gacacccggc aacacctgct gatgcgaatc ccttgagaca ccaataacat 300
cttgtgtcat atcgccaatt tactgactct tctcttataa actcactctc tccttagacc 360
acgtcctgcc ctgc 374
```

<210> 6898
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6898

agctngagga ctatacctnc gaccgtacac cgttgtggtt ctatctcggc ctaagtttat 60
 tgtgggctgt agcaccgggt ccgcttacct agctgtattg gaggcgcgcg ccgtggcatt 120
 atactctata gatctctgaa gctctagcat ggccttcgtg atagaagcca tttgatcttt 180
 aaaggctgat aggtcggcct tcatctgttc ttgcactccc tcttcattat ccattattct 240
 ggatcgagtg ttataggggt gcctctgcac tttcttagtt attgtgagtt ccctaaagaa 300
 acaaacaatg gtgagtatgc caccaaaaaca tgaatatgct aatgaatgat cggaccactt 360
 ggatccacct caagatttta gataacgtga tgagttcaga acttctcgtt tataaaagga 420
 acaagcttta tctaccaaga catacaaagt gtacacagac ctaca 465

<210> 6899
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6899

gtctaggatc tcaaattaag tcttgggaagc aataaagatc aattgccatt caacatggaa 60
 gggtttgtaa cacaaaacat acatcagaat actaaaaaat tattaaattc ttactcgtaa 120
 ctttttttga aaagagaaac ctaagcatac aaaaagcaca tcatcctacc cactangtgt 180
 ggcttttgtg aatgagctac cggttaccac ttagaactct ctgtcctact ttagacacca 240
 aaataaaaat gtattatgta tagccctct atacttaaca caaataccac accacgacta 300
 aggttagtgt ctggtc 316

<210> 6900
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 6900

agcttccacg tctaatatgg aatttatttt cttttttagt acgaaaaata tctataatga 60
 atagagtaat atgttttaac actacatgtg taatttggag caaagcatca tgtgtatgaa 120
 tctagaaaag aagagaatgt ggatttcaat taccaacgct tgaaaatgaa tcagataacc 180
 catgtcgtgg acgcctgact ctaaaaccga tcttcctttt cagctatttg tttctttcta 240
 actttggacg ccattgatgc catataatct tcttatgcag caaaaa 286

<210> 6901
 <211> 154
 <212> DNA
 <213> Glycine max

<400> 6901

tcttcttctt ctaatgaccg cttctctttc ttcactttcg gttatggtaa caactaaagt 60
 gcaacactca ggtatcgcca tcgtttaatc tcacagagcc tgcaagagtg aagttagata 120
 actatgatga tctagtcttg gagctgaatg agcg 154

<210> 6902
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6902

agcttcccaa ccaatcttcg atatctttca ggatcagaat aaggctcccc atgattgggt 60
 agcaattttt gatttggatc cataggagta tcaattgggtc tacaatctga cataccagtt 120
 tctttaagta tgtctaacgc atacttcctt agtctaaaaa tgactaaata aatgttcttt 180
 tagttgagca atttttcctt ggtcatttct tatgatgact atatcatcta tatagaccac 240
 caagtaaaaa catctactcg atgaggtatg acaataaaaa actgaatggg ctgcttcact 300
 tcgttttatc ccaaagcct gaacaactga gctgaatttt ccaaaccaag cacgtgggga 360
 ttgtttgagt ccataaagag acctncaaaa ttgcaaacc aagctagact tctctgagc 420
 aacaaatccc ggtggttgct catataaatc tctattcta 459

<210> 6903
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6903

ctagcttctc aaggaagttt totcaatgaa gcttctcaag gaagtttctt caagaaagct 60
 totcaaggaa gctacctagt ctataaatag aagcatgtgt aacacttggg ggaactttga 120
 tgaatgagag tcttgtgaga catacttcaa agttccactt ctttccctct tttattcctt 180

caatttcgtg cttccccctc tctctctctc tccctctttc ttttcctcca ttgaagcatc 240
 ctttcaagct tcttatccaa ggctcatctt ggtgggtgaag atccttcttc catggcttat 300
 tccctagtgg atggcgctt ctctcacctc ttctcctttg tcttccgctg catctccatg 360
 gtggaacatc accattaacg aacctcattg aagctcacag atccagcctc catagaagca 420
 ccacaagcaa gcttccgtca cat 443

<210> 6904
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6904

agcttcctta atcacctcat taaggactag aacacccatgt aggatgtgtc tgtnttttat 60
 gaaagttgtc tgctctcat caataagacc agatatcact tgtctcaatc tatntgctaa 120
 taacttagct atcaccttgt acatacatcc aatcaaggag atgggtctgt agtcatcaaa 180
 tgactgggga tgtttaattt tgggaatgag agctatgaag gaagcattac tgctctagg 240
 gaaactgcca tgtacatgga attcatcaac aaatcttctg aagtcagctt tcagcatatc 300
 ccanaattct ttaatgaatt tgaagttgaa accatcangt ccaggacatt tgccncatc 360
 acaactccat actgcttctn tgatctccaa atctgaaaaa ggaacaacca aagactccct 420
 ctgctcctgg gttagtgaag agaaatgcac tccatcaaga gtgggtctac 470

<210> 6905
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6905

tangctaaat tangctaaac tttcataagc tgcttgagct gagtctagtc ttacaagagg 60
 gatctgtgga cgaaatatag tttaagttaa tctaaacctc agaagggtgt cttaattggg 120
 catagtcgaa caaaaaggat ctgaggacga aacttggtatt gatttggtct aatgagggat 180
 cgagggttaa taatttacgc tacaacataa aacacaagag catgattgat tagagaaata 240
 tatttatatg catcagcttg cttggttagaa agaccaaca tttctaccta ctgttataac 300

ttttacttac cttgcattnt atagttttta acataaaggt ttagttttaa ttctgtttga 360
aattttcaat catacatggt ctcttaacaa tgctttattt ctanacttaa ctcacgctaa 420
cattagttcc ctgtgttcga tactcggatt cattcg 456

<210> 6906
<211> 319
<212> DNA
<213> Glycine max

<400> 6906

aaatttcctt ttatgaatga tgctctccta caacctaaaga caaggtagaa ggagataaac 60
tgtacaagct caagggttaa tcaaacaaatc atactttcag ctcacaatgg gtgcaaggga 120
taaaccaatc atgccccagg taagctttct agctaagtgg ctatcttcaa tcaaaacatg 180
ggcttcattc tcttcaaact catgtgtatt cattccatac tcagagattt atgtaaaagc 240
cattacttac tgctagtcgt tctctcacia ttaaagatca cactctcact gggttgcggc 300
taatgcattc cttcacaat 319

<210> 6907
<211> 299
<212> DNA
<213> Glycine max

<400> 6907

tcttacttta ttgacacgct ctctttgagg gctatacatc tataattctt taaatggctt 60
ggttatgaaa gctaggagtc acttactgac aaaacaatac ttgaatgttc ttacgttcaa 120
ggggaagcta agggttgtgt tagtagtgac ctaaagaatt cttgtcagac aggagagggc 180
atggtagaat atttaattga atcacatcat tgattagtgg aaccatttac tattttatta 240
acgagaacta cacatacgct agattgagtg aaataatata aactaagcgc ttctactac 299

<210> 6908
<211> 363
<212> DNA
<213> Glycine max

<400> 6908

tgatcaaaac aaacatctaa tcattccagt ccaactcaatt catacattct ctcattcaag 60

tcattcacaa acacttcatt cataagaaat cacaccactg aatatcataa ttaataagtt 120
 cactgttcaa acatgctttt gtacaagcta tcaacactca aacaaccaa attttaaaga 180
 ctaaaattta aagactaata aagcataaac aaataattga catgaactac ataattgata 240
 aaagaaacta ttcataattt gcaaaatttt aaaaactatg tagaatttaa aactcatgat 300
 catcctactg ctgatcttct gcatgctcgt tcagatccag cattggagca gctggtggat 360
 cct 363

<210> 6909
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6909

gcttgcnaag ctcacataaa tgagaaaaga atcataaaac gtaccttgcg ttgatgtcgg 60
 actccaacgg aggatgctcc acctcgcggc agtcacgaac cccaatggca gtcgtgaacc 120
 ccagcaacaa cgatggtgag gaggagatgg tggtgacagg tcgcaaaagg cagtcacagg 180
 tagcataaaa cgatgatagg tcttgcggtt ganagggaga agaggaaggc ttcgtttgca 240
 atactgagcg cgcgggagaa aaagtgggtt tgggttttaa tttatgtata acacaacat 299

<210> 6910
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6910

tatacaagtg gattcaaact ttctaacttg tttttctttt tttaaaaatc aaacaggtcc 60
 cttagaaca aagcttaacc aagttttcaa gttatacttc tattggatct attaagcaca 120
 taaaatgaat gaccaagaaa gtcaaattac ttgggttttgc atctgcaacc atcgcggtcc 180
 ataataatca tattgttgct catagcccggt atgtgctcaa ggcaattaca gaacacaaca 240
 ttgataattc aaccaacatt tctgtacaaa agcaatntga attggtacaa aagcaaggca 300
 atatctaaac ctacctctct gggcacaata ttaacaaaat caattcacca ctataatatt 360
 catcaacatc aacatanagg gtacacaata aaaaagaata agcacatgca caattataat 420

gacttgacaa ttacccgcgg agc

443

<210> 6911

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6911

agcttgttgc attntagtga aagaacaccg agtactatatt agtctcacia atgcaagaac 60

tacgtaggtc tgagttcctc atcacaaatt gaggatacgt aggagcaaaa gccccgcttt 120

tgtcgaccac ctgcgctttt gctatcgtga cctgtgagtc cgggtggcacg cggaacacc 180

cgatggttat ccgcgcacac tntttgctat cccatgacct atgagtcagg tggcacgcgg 240

agacacccga tggttatccg cgcacactct ttgctatcca atgaccaag ggtccggtag 300

catgcagaga taccttcggg ttatccgcac ctttcgccag ctagaggcaa gcgagcccgt 360

tgacatgcag agatcaacgt ggtcatctgc acctttcctg gagatgtca 409

<210> 6912

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6912

tggagaggat gcttaatgga ggaaaagaaa gacggagaga attagagagg ggggagcacg 60

aaattgaagg aataaaagag gtagagaagt ggaactttga agtatgtctc acaagactct 120

cattcatcaa agttacaata agtggttacac atgcttctat ttatagacta ggtagcttcc 180

ttgagaagct ttcttgagaa aacttccttg agaagctttc ttgagaaaac tttcttgaga 240

agcttctttg agaaaacttn cttgagaagc tagagcttat ctacacatac ccctctcata 300

actaagctca ccttcttgag aagcttcctt aagaagattc cttgaaattc tgatactggg 360

gacagatgtc gtacacgatg tcacgacatc acgctttaga acatgcagat tatatttgac 420

agtgtggtcc gtttaaacia atagataaca caagagaa 458

<210> 6913

<211> 442

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6913

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ttaggcactt ctctctcttt cgaacttgct tggaaaaatt gtttccgtga agaanatcta 120
agccgaggcg gttccgtaac gtttccgtga ggaatttcgc aaagggttcg accgttcttc 180
gacgttcttc attcgttctt catcattctt cgatcttcaa cgggtaagta cctcgaacca 240
agttnttcga ttcattctat gtaccctggg tgggccacat tatgtttcgt gtatttttat 300
tctcgtttca ttacattttt atacccctt ttgacgtgct taagccattt tatttaagtc 360
atttctcgct taacctaaga ataaaataaa tttccaccga tcgtttgaat tgattatccc 420
gtaacttcgg ttaaataaat tc 442

<210> 6914
<211> 389
<212> DNA
<213> Glycine max

<400> 6914

ctaagcttct tggaaacttc ttgagaagct tctttagaaa actttcttga gaagctagag 60
cttagttacg catacccctc taataactaa gtcacctcc ttgagaagct tccttgagaa 120
gattcctaaa gaacgtagag cttagctaca cacacctctc taatagctaa gtcaccttc 180
ttgagatgag aagctagaac ttagttacac acccctata atagctaagc tcaccccat 240
tccaaaatac atgaaaatac taaaaaagt cctactaca aagactactc aaaatgcctt 300
gataggctaa aaccctatac tactagaatg gccaaaatac cacgcccaca agaggaaaaa 360
cttattctaa tatttataaa gctaaaata 389

<210> 6915
<211> 272
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6915

ctcgacgaca tcactattaa cccacagata gaagatgcc caataatggt attgttggtg 60

tagattcgca tcttctttta gtgcatgaca ccgaggcatg cacttctcga cggtcctcaa 120
 caatggcgat gttgctgcaa ttatgtagat ctactctttt cgaactgttg ttttanggag 180
 gatgagaggt gaacgtggag caatcattga gtgaggggca catgaataaa caatgtatac 240
 cacaactagg gatttctaaa gggtgaaact ga 272

<210> 6916
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 6916

ctaagcttgt aataagaata catagaatcg tatattaatg agataaaaaa tatattttaa 60
 cctcgcgatat gtgtgataat gacttttttc ttactttttac gctaattata ctactttttac 120
 atttaattat gtaaataata accatcactc acctatatag ttgttttcaa gataaaagac 180
 taaatcttag acattttgat cattcgccta ttgtgatttc agataaaagt ctatgatgag 240
 tgacataaag taagtgaaaa agaagggtga aagaaaaaaa cctcgcgaga aatgcaacat 300
 ttaactgtat atgcagccta aggatacatc cagcgtctct tattacaaat atcatttgat 360
 aacttcttat tatacacac 379

<210> 6917
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6917

agcttatgct gcanacatct acaatagacc tnetcaacct cagcagcaaa atcaaccaca 60
 gcaaaacaat tatgacctct tcaacaacag atacaatccc ggatggagga atcacctaa 120
 tctcagatgg tctagccctc aacaacaaca acaacagcct gctccttctc tcaaaatggt 180
 gctgggtcaa gtagaccata cgttctctnct tcagtgcac aacaacaaca gcaacagcaa 240
 catcaataga gacaacaatc cactactaag gccctcctc aaccttcatt ggaagaatta 300
 gtgaggcaaa tgacaatata gaacatgcag tttcagcagg agacaacctc aatt 354

<210> 6918

<211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6918

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tttgggtacan aagaagaaga agaagaactt canagagatt tcaattgctt gttaaggatt 60
gattggaaaa gcaaaagtat tcaagattgt tgctagaaag attgattgaa aatgcaaaac 120
aaagccttga ttttatagac tcttcatgtc tgggtcaagaa ggccattcag aagagttata 180
actttttaga aaaacttaaa acccatttga aaaagtcaaa acctttttga agagttacat 240
cttttgattn ttcagaaaca gtcactggta atcgattacc aaataagtgt aatcgattac 300
acaaagcttt tgagtgaag gatgtgactc ttcacattta aattttaatt tcaacgttca 360
aggtgtcgca acctaccctt cggcgggagg gcgacgcgtg actcgcggga tg 412
```

<210> 6919
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 6919

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ttgattctag ttgacagcat gatgcctatg cattatatatt cgtgtataat ataagggaaa 60
aaatatttct ctgtcgtgct ttggtacaac ttcatttggc catatatctg gttacatggg 120
ttatcacttg ctttgaactg gtttctctta aatgatctgg catttttaat aaatctatac 180
gttttaattg aaagatttga ctttttcttg aacttcattc aagacttttg agttaagctg 240
tatgctttcg ttgaaatat taactacttg tatacttaat ttggtgtaat gcacttgtgt 300
aataaatgag aagggttaca ttctaagag tcatgattat cgattcttgt ataaatttcg 360
gatttacgta aaatatacaa gctatgatga aattgatgaa gagaaaacgt ggtggaa 417
```

<210> 6920
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 6920

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caagtgggtc tggtttctat ttgcacaccc ttttttacta aatacacccc ctttactttt 60
ttctgtgcat cttttttcgt aacgttacga aactttacga atctcgtaac gatacttatt 120
```


ttcttttcgt acgttacga accttacgga tcatgaaaat actctttttt agcttttcgaa 180
aaagttacga aaactcacgg attgtgtaac aatactctct tttgatttct gtcacgttac 240
ggaatttcac ggat 254

<210> 6921
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6921

tctagtcgtc catagacctn ctctgtggta cggcttagca nacgttgcat ctgtgcattc 60
atcgcaccca ctaacagacg ttgagcgccg tncaactgat ggtacttgct accaccacca 120
cctgcttcaa ccataattca acaggaaaaa aaaaatgtgc aataaaaatt attaaggttt 180
caggacctca caacactcta ctcacgtctc ttagatggta gtacactcgt gttaaatgct 240
ctcaataggc tcttgtgtaa tgtattccct cttgcctttt accactcgtg tttcctctta 300
agttcctgga tggaccacat tagacacaca aggtaatata aaataaaagg aaagacaata 360
taatgatcac aaacagattt gatttgggat aacaacttgg acttgattng gataataata 420
ta 422

<210> 6922
<211> 484
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 6922

agcttggttg tggcaaagtc aaaatctaata agaatgtata cttgaatcaa cctgtagcta 60
gctatttttg tattcattgt aactaacgga gattctaaat ttccacttaa tatgtgaaga 120
tgtacctttt ctgagacctt attgctacta ccatttagta gctctgggtgc catccaaggt 180
agagttccac gaacaccacc agacaccaag gtatttcgct taatctttga taggccaaaa 240
tcaccaacct ggtgaaaagc aagtttctta gctttatcac aatgaagaca atgtaataga 300
atgaataatc cacagcttga aaagatacct tgcattattgg ccgcatatga tccttcaagt 360
tcacgagcan atngtcacat ttcaagtcn aatgcacaat atttttcgag tgtaaatatt 420

ccactccaaa agcagcattc atgggcaata tcagtctctt gcggcgtcaa gatacctgga 480
ataa 484

<210> 6923
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6923

nntttgtacg acaccttgta cgcaaattga ctgttaatcc tctcttgaat caatgaaatt 60
tttatcgatg gatcttctct aatcatgcct gtcaatagaa taacaaaatt taaatgacaa 120
ttaaggctta acaataacat aatatgaacc taaaatacgt acctactaca caagtcacaa 180
ttaaatctga atcaagtttc tcgtgatctt gggtcatggg catattgaga catgtgtgtg 240
gtccacccca ttgagtgact ttccatgaat cagtcttttt agatagaatt gccctcatgt 300
agaaaaggca aggacaatct gcatttctat taagcaacan accacatact tgtcccatct 360
gctttcaacc actttgaaac tttgatgcac cctcataaca taattgtttg accgcattct 420
ttgaccgcat ctttactatc aaattccatg ccaacatata at 462

<210> 6924
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6924

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gcttcaatct cttgaggatt agtcctcaac ctgcaaaatc tagagtaaagat gggtaaagat 120
tccccctctt ccaataccac tggcgtctga aggaactcat tcaggctgtc tgcattctatt 180
ttgatcaagt gtctcgtac tctggcttgc ttgggtgctt cctcctctgt gctgtataaa 240
ttagcataaa actccttcac catagctaca tctatacttc catcttggag attggcgagg 300
cgtttgtgta gaatacgctt ctccaattcc actttaaact cgcaaaactca gtatgataaa 360
ttgcacattt ctct 374

<210> 6925
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6925

tcatgatgat gaatcatgtg anttcaagta atttgataat gacatagatg atgatcanaa 60
 gcccgaagaa tgatttcaga ttgagtcaac aattcaagat ccagtttaaa ttgatgtttc 120
 atgagaagaa atcaagaacg atcaacggat aagagaagtt tgattccaag attcaagaga 180
 agaagaattc acgattcctg agaagaaatc aagaagactt cacaagggaa gtattgaaaa 240
 gatttttcaa acaaacaac atagcacaat tttgtttttc aaaagagttt ttctcataat 300
 ttttaagttac cagagttttt actctctggt aatcgaatac ctgtttcctg taatcgatta 360
 c 361

<210> 6926
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6926

tgacgcggtg aagganacga gtgatgagat aagtanacag ttttacgcgt tacggctaga 60
 ggttctggtt ctggactcgt aacgttgtct tcttctcttt tagaacttaa tatataatcc 120
 atgttttgga aggaatctgt tggttcatac tcgtgtcgcg ttcctccgaa atcacttgaa 180
 cttgattctt catctcttgc ctctaataa atactctaac agcttgcgtt gatttcaaac 240
 tccgacanag aacaaccttg tcgacacagc aaagcacagt aacatattac gagaagaaga 300
 tgtgt 305

<210> 6927
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6927

cagtcttctt tacttttgtt gttgaccaca nagtggtacc tggagatatg tcgcgggggt 60

caggagaccc tgcggtcgtc aggtgggatg ctatttgccc aaaccaagct tgaccacatc 120
 cgacccaaac cccgcatagt cagccagtga gaacctgtga cgaacctaac aggcgagctt 180
 cctgcagtca accaataaaa gaacaaagat cacanaagcca ggaggcttgt gtggtggntg 240
 gccatctatg atatctgagt gggatctggc atttggcctc ttgtantcga ttaccancgg 300
 tgtgttatcg gatacaaggc ttaataatgg agacaggaag taataccgcc tttggtatct 360
 actaccacgg tgtcacatcg cttactcgct ataatcgata ctggtgctag gacggctcgt 420
 tatccgctcc n 431

<210> 6928
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6928

tgagatgagg aagtgttgaa cggtgaaact tcctgctttt attgctgacc acagagtggg 60
 acctggagat atgtcgtggg ggtcaagaga ccttggggac ctcaagtggg gtgctattgc 120
 ccaaaaacaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaagaaaca aagaccacaa 240
 agcaaggagg cttgtggtgg ctggccagct gtgaattntg tgtgatatgt ggattatggc 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattac 338

<210> 6929
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6929

gcttcagctc tggccactcc tgatagatnt agacatgccc aacacaatag tccctatatg 60
 actgaagaag ggacaaatca attggacctc ctccaaatgg agggccaatt atcctaccaa 120
 gatgtggccc tgactatggt tgtggctcgg acttttgcta cagcttctag tgctgacata 180
 tcaacacaat cgctttgtga tgtctctctg caccatcttt cctttgtcgc gataggcctt 240
 tatgggaggg atcacgtnta gcaacatatg atgactgttt tgtgctagcc atttgaaaaa 300

aaatgaaaaa aaataagtga acatattaaa caattatatt taaccaagac aataaaataa 360
 tataaanaac attacatttg tctaaagtaa ttaaaataaa ataaaaaaat acgataaaat 420
 catgaatctg gtgtacatta tgatgaatca cacaacggaa tngtgattca ttgtatatatt 480
 tcatag 486

<210> 6930
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6930

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 gcgggtagga atcgggtattt tatgggtaca accgaatttt cttggtaatg agtattgtgc 120
 ttcgactctt cccagaataa taatcgtttg gaattttgct ttttgttttt cctagtgttc 180
 cttcatatca attttagtaa ttcgggtgat tgggtcaaacc tgtgcaaaca ggggagggga 240
 tgtaactttg ttttcttgat agacaccacc accttgctgt taacgaggct ttgtgtttat 300
 cttgcaatta tctttctttg ggtttcatat tatatgatgt gatatntctc taaatatttg 360
 tacaaaattt agataacgtg ctgatagttt ctaaaataat tatgcaatat aat 413

<210> 6931
 <211> 320
 <212> DNA
 <213> Glycine max
 <400> 6931

gtgcttatcg ataatgggttc cagtttaaac gtgatgccta agagcacttt ggagaaatta 60
 ccattcaatg ccttccactt aaagccgagt tcaatgggtg ttcgtgcctt cgacggcacc 120
 cgccgagagg ttaggggaga gatcgatctc ccagtacata taggccctca cacctgtcaa 180
 gttactttcc aaataatgga tattaacccc ccctacagct gtctgggtggg gcgcccgtgg 240
 atccactcag tgggagttgt tccctctaca ctccaccaa agttgaaatt cgtagtgga 300
 gggcatctgg tcatcgtatc 320

<210> 6932
 <211> 457

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6932

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gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaact ttatgcaaaa 120
ctggtcacgc atgcacctat gtggacactc aagtgtcaaa attttttatg gtcacgtgat 180
gctaaagctc agaattcatt tcctctattc taaatcaacc caatgtttcc aaaatatgtt 240
cttttatcaa tttgtgcatt catccgagtc catttcgggt gtccgngaa atttcacagc 300
attcaccctt caggtgtaga cacattttta aaaattgggt atgatcaatg aattttttca 360
cagaaaagtt ggaaatcatc tctcttcaaa gaatgtcngt ccttagctag acacctaatt 420
tcttttttcc attttttcta cttgcttctt tttctat 457

<210> 6933
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6933

agctnnttgg agtagaaaca tgggaccaac tcattntatt tcataaagtt gtatctagtc 60
aaggtctgag agaccatata agtttcctag cgatttctaa ttatgtgggc cattaagtct 120
atcatatgct gacaatagcc gagaagccca tgaatttctt cgggggcgga gtaggtgtcc 180
gccatcgct tggccttggc taacaatcgg ngaagttcct gactcccggt caaggtaaga 240
gcaaaccgat ccatccacat ggttgccctc agcctcttn tccgcgtata cttgggcata 300
ctcgtccgag atcctatgcc cgtgggccgt ggctagacct aactcttctt ggtacttggc 360
gatgatagct agcatgttgg tctccgtctc gcataaacgc tgagacaagc ttctttt 417

<210> 6934
<211> 428
<212> DNA
<213> Glycine max

<400> 6934

ctaagctaga catacatatc tcttcttgat acactaattc aaataatcta tttcatggtc 60

tacccaatga agacccttat gctcacttgg ccatctatat agagatatgc aatattatca 120
 ggttggtggg tgtgcctgcg gatgcaatca ggttgagtct gttctcatTT tctttatctg 180
 gagaagctaa gagatggctt cattctttta aaggaaacaa tctgaagtca tgggatgaag 240
 tagtagaaaa gttcttaaag aagtacttcc ttgaatcgaa gactacagaa ggcaaagctg 300
 ccatatcttt tttccaccag ttaccagatg aattgttgag tgatgcactt gaaagattag 360
 aggtttattg agaagactcc actcaagggt tttagaccaa tacagctcaa catattatag 420
 atgggtga 428

<210> 6935
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6935

tgctgattct ttgacacctt agttaatatc cacatctact tgacactcct ttttnggac 60
 tatecttctc tcttgggggg acaacacatt tatcaattac ttatgtaata aattagaagc 120
 aaataataaa cctaattaat atacttaatg aaataattaa gtgagtttta ataattattt 180
 atgaattcga taaatagtat aaattcatat 210

<210> 6936
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6936

cgggcccccg cgggtgaggc tgtgacntcg ngaactctga atacttaagc ataatgcct 60
 ntaatgacgc gattccatta ggcaattcta tattttaaga attcacgcca gtcaagaacc 120
 tcaagtgctt tganggtttt caaaatggga gacgtcacct aattcataac ctttcaagcg 180
 cagagtatga agatttctgt acgacgtcat tgattgtggc agagaccacg agagatacca 240
 tgtaccacat gcctgtgtca attcacgcct aatgaaagta tagctagatg gcgtgggtcaa 300
 ttcacgccta caccaattat agctagatgt tcctatcgca ggattctaatt cacttatagc 360
 ctttctgaac aagtatatga tacatggaag tccacctcag gagaacgata cagataatt 420

taagtgattg acatttccat gatgctaatac agaagctgcc atttttatat ccacgagata 480
 ttactcotta tctttatggg gcatctctac g 511

<210> 6937
 <211> 118
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6937

agcttgtggg ctgctgttct cgtagttccc gtgagcttgg tgttgttntg aagtgaaagg 60
 gaagagtttt ggggtgaagaa aatgttcccc ctccaccctt atatattttc gtacaggg 118

<210> 6938
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6938

cagctcgccc aggcgagcac ggttgcttcc ttcagaagca acaaccttct ggaggaagga 60
 tcttgaaggc ctaagtgggc cagattgcta ttcgtacccc ccctttntac taaatgcacc 120
 ctcatattatt tttttggtta ttctttttct gtaacgttac gaaactttac gaatttcgta 180
 acgatactta ttttccttcc gcaagggtac gaatccttac ggattatgta tttactcttt 240
 tttggctttc gaagaagtta cggaaactca cggattgcgc aaaaacacct cttttcgatt 300
 tccgccacat tacggaattt cacggatcgc gcaagcctgc ttgcttttga tttctgacac 360
 gtctcgggtc ttcatttatt gtgcaacaca ggacgccaag tatctcaaag cagc 414

<210> 6939
 <211> 180
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6939

ttttcatgtc acttttgatc acaacaatct ctcttttaggt cacatttggc acaccctttg 60
 acttctcctg aatctaagac tottaagtat ctgttaacac taagtcactc ttggctntca 120

caaacaaata tgtttgaatg aacacaccaa ttcaatcact ccatagagta gataaacact 180

<210> 6940
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6940

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 tacatacata cttacacaca cataaactg ttaggttgct ttatgggatg tgccttata 120
 atttattaat gttaaactga cgcgtcctct actctgactg gtcatttacc taattttata 180
 cttgattctt tgcatactat aggctagaca cggtgctctt ctccttaata ttctttcaaa 240
 atactgcat ggtacttagt catcccttat atacggcttc ttatctcttc aactattaca 300
 tctgttattc aattncatta gtttcatatt catttatggg gatatcttat ataactacct 360
 tgcaaagatg atcatgtgat tataactata tgatttttca tattcatggt tctcatattc 420
 attcattgga attccttaat attctt 446

<210> 6941
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6941

tactcattgn gaatccatgg gaacctaaat gctcgaagtc tttgtgcaat agnaaattcc 60
 acaaaggcat ttaaatgctt aagttaatga aaaaaatgca ttgtccagta tgtcacgatt 120
 ttggatcatc ctacttgaac gtgtgtcctt ttatatacat tgatatctta cattcaaata 180
 tgaaaagttg tatcctttat tgaaataagt aaagttagaa aataaaatga ttttatctat 240
 aaaaggataa aatcatgatt ttatcttggt atagaattaa agacaataaa ggtagttaag 300
 ccatgatctt tagagatatg gggatataac taatatgatt ntggaatcaa tcttgattga 360
 gaattcatca atgattatcg acccttcac tcttcattga agacatatga agtgacagtt 420
 gacctgcaca aaacaatatg ggtagatgac atc 453

<210> 6942

<211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6942

agctntgaat tcattctatg tacccttatg ggtccattct tgctttgtat gccttcatct 60
 tcattattct accgttgata ttctttttct ttgttttaag agagtttcaa ccaatcattt 120
 aagccgtaat ctcaacttaat caatgttaaa atgaatttca actgatcatt tgtgttgtaa 180
 tcttgtttaa tcacctttta aataaaaattc aaccaatcgt ttatgttgta acatcgggta 240
 atcatcacia aggtaagttt caaccgggtca ttactttga aagttctctt ttatgagttg 300
 aaaataacca agtgaaacca aagctaatat caactcacia atc 343

<210> 6943
 <211> 301
 <212> DNA
 <213> Glycine max
 <400> 6943

catataaaac aataacatat aggtatttct ttctaatact gattatataa gaattttatt 60
 aaaatggcca cttgattggt ttgaagactt gataacaaaa ttattagaaa ttttatttaa 120
 gggttctattt tattacattg gattccttag actattacat atggtagaag taataaatgg 180
 ggactatcag gtataacact aagactgcaa caatgggtcct ccacgacatt tttctgcccc 240
 aaaaagtttg aaggaataga ctacagcatgt ttggtttacc gtcagagctc ttgcatatgc 300
 t 301

<210> 6944
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6944

agcttgcttc tacaaaaaga atacacacac atgacctcta tttatagcct aagtgtcaca 60
 ganaattgga ggggaaattg aatnttctat tcaaatttca cttgaattag aaattgaatt 120
 tatggagcca aatttcggag ccaaaatttc actaattatg attcgtgaat tttagctatg 180

gttcaacca ctagtccaag atcaagtcca agattctcca ctaagtgtgc ttaggtgtca 240
 taagacatgt aaagcatgaa gtatatgcac aaagtgtgac tatatgatgt ggcaatggag 300
 tgtagcanac aaatgctcac ctccccgtct aanattaatt agattgggct tcncaaattc 360
 aattaattta tttccaacaa cacataaata ttcattaatg atgtganata caaactaccc 420
 taaacaaact 430

<210> 6945
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6945

gatgttcaaa atcacccata acagaatgca cagattcacc aataatggaa tgctcaagat 60
 gatcaaaagg tataaaatga tgcctaacta atctatgaaa tgtcctatct atctcaggat 120
 caaaggggttg taagtcagat ggattgcctc tagtcataca ctacattcag catgcacaac 180
 tagttgcctt gtcattgtaa taaaggtgca ggtttgaact acagctaccc tcaagtgata 240
 tccaaatgac tttgaaattt gtgagcaacc ttataaaatg atgagaagat agcacancaa 300
 aaattagaca aaaattcaaa gtctaactat gaaagc 336

<210> 6946
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6946

agcttcatga gagtgtgaag aacatctaga agaattttga ttctgctctt gtattcgaag 60
 agaacgggtga atccagcaat gaaggtaatt aattccagta cttcctagta cttctctttn 120
 gtttctgaat ggattactct gatgtgctgt gctgggatta ctatatgata gagggaggta 180
 gatgcacagt tcattaactg ctgtgagata atatgagtct tgaattgttg gatgggatgt 240
 gtgttctcta tgtgggcaat tttcagattt gacactgatt ggagccatgt gctttttctt 300
 gctgtatttc agaagcccga tcatggccta tacctgctga caggaaaacc ctatta 356

<210> 6947

<211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6947

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agaatctacc tctcaaagt atttatcttg ctctctatnt gctaaaattc cccgagccct 60
cactacacac tctctacctt tgtttatata caactttcct ttcaattctg ttatgacaga 120
atattctccc ttggccctcc ttttcttcct attatagaca ttcttctatt aagagtatta 180
tatgcatttc taataagacg tctaaccac atgggtgaaa gtgatacaaa aaaataattc 240
tcttacaatc ggtagaggga caacagaaaa gagtgcgctc tgataatata cgctgaaaag 300
cacaattgtg catgttanga gttctaaaaa gttttgactt gagattcatg tgccaccacc 360
atgtacgaag tgagatacaa ttacacaaat cttattgct 399
```

<210> 6948
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 6948

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catattacat gtcatatacg gtatttgga ttttaaaact tagtgcaatg aagtactttc 60
gaaggtaagg agaatggaca tccacctcaa tggattgaac caaaggatg tcgttattcc 120
cgtattgaat gaaatttcaa ataaatacca tgtgttacct acaaatagaca aagcttaatt 180
gggtattttc atattgcacg tagagtcag tacaagccgg agggatgag tgtggatatt 240
atgtcatgca ttggatgtgg tgcatagtca gcgacggact gaagaatgaa tggaacactg 300
tatgcatact 310
```

<210> 6949
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6949

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tgctctaacg agctactgtt tggattgcag tatgcccact tagctttcct ttattcactt 60
gatctctcaa aaatgaaatt gtgtcttaat gtgcttactc ctttcataag ccacaagatt 120
```

ctttgcttaa tttacaaaga tgactcaaat gtaaatacatc aattgtatatt ggccatcatt 180
 cttcaagtgt agctcctcta ataatgcttc aagccacaaa gctggacaat ctccataaga 240
 gtttgcaatg aactatgctt catangacga gagtgaaacc atgacgcaa agccttgcct 300
 aacataaaaa catatcctct tgggctcttt ctgtctttnn tatcttcaaa ctaatcaaaa 360
 tcaaatacct tctattntgt ctatccgcat catcttgaat gtttggaac aatagaccat 420
 aatcaagcgt ggtctttatg 440

<210> 6950
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6950

gtcacctgog gctgcagctt acccttactt gcaagaacca cttctcataa caacaacaca 60
 cacttctctt gctatgtcca caacagtctc cttagtccat aagaaattca taatactgtt 120
 gtatctagtt cttttaaaact ttggcatcan agactaggcc atcctaaciaa ggatgcacta 180
 gaaattgact aaataaatgt aatatacctt ttatcaataa aactaacagg ggatttttgt 240
 aattcttgct ctatagccaa atctcacaaa ctaccctctt ctccctcttt cactgggtat 300
 actgcacctc ttgaatagta ttctttgatg tttggggccc tcttcagtag agtcatctta 360
 tgggatctta ta 372

<210> 6951
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6951

ctgaagggtgt gntaaccac ctttttttca tagtagaaca cctgtcacgt gtctactatc 60
 attgtgataa tctctttctc tcgttttggg ggtgctactt gagttgcaa gcctcttcat 120
 ctttgggcgt gttctttgaa agatccgtcc ccccttttgc acacgttctg tagttgcac 180
 ctatccgaag ccataatcaga attgtactga caccgcctaa cgaaggcaac cattagggtcc 240
 ttccaagaat ggactcaaga aggttcctaa gttagtatac caggcgacag ttgtcctagt 300

aagactttct cagcagtttc tcactttttg cgtatgcccc catcttccga cagtacatct 360
ttagatgggt ctcggagcga gtagtcccct cgtactcgtc ga 402

<210> 6952
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6952

agcttatgtg aggcagtgag cctcgacctg cattacacac agttcaccat caatatacat 60
gtngtaccca ttttcggcgc caatgtngct ttangaagtc agtggctaaa aatccttggg 120
tcttgatata atcgactata acaccctttg cataccaatt ttctatgatg gttgtcttgt 180
acaacttcag ggcgacaaaag atttcactct gaccccggt acgtcatctc aatttcgccc 240
ggtgtcacgg atgaagacag tangattata ctggcatatc tccctcctcg cggagga 297

<210> 6953
<211> 250
<212> DNA
<213> Glycine max

<400> 6953

actagtactt tggtttctag ccgtgtatct ggctatatta tgacatttga accatttaat 60
gatgcaatcc ttcctaggaa gggaccaatc actagaacca tgagccagag gctccaagaa 120
gattgggcta gagctgctga agaaggccct atgggttctca tgaaccttat gatagatttc 180
tgagcccatg ggccaagggt gggccaatt atctttgtac atattagact aggatgtcat 240
tatatttggt 250

<210> 6954
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6954

gcgtttatgc gagacggaga ctctcatgct atctatcatc gccaaagtacc aagaagagtt 60
aggtetagcc acggcccacg agcataaaat cgcagatgag tatgctcaag tatatgcgga 120

acaagaggct agaggaaggg tgategactc ttacaccaa gaggaacaa tgtggatgga 180
 ccggcttgct cttaccttga acgggagtca agaacttccc ttgttgntag ccaaggccaa 240
 ggcgatggca gacacctact ccacccccga agagaatcat gggcttctcg gctatcgtea 300
 gcatatgata gactttatgg cccacataat tagaaaatcg ta 342

<210> 6955
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6955

gcttaagctc cttcaactgc acaaggctct taatatttga agagtattct tgtggaacct 60
 tcacctgacg aagacacttg acaaaactta tctnctcctt cttggacaaa gtatggcaag 120
 ctggggggcaa gtaacttttc ttcccatcag accttggatg caactgtgat cttataccca 180
 tatcagctag atcttgacgg gtattcaagc catccttcgt cttgccttga atggttaagga 240
 gcgtcccaat cacactgtca caaacatttt tctccacatg cataacatca atacaatgtc 300
 taacgtcaag atcacaccag tacggaagat caaagaaaat ggacctcttc ttccatatgc 360
 aactctgact ttatccttc ttttgggtct tcccaaatac agtggttcagg tgttgaaccc 420
 gctgatatac ctgctcacca gtcaacggta tcgacgcaat atcatgc 467

<210> 6956
 <211> 208
 <212> DNA
 <213> Glycine max
 <400> 6956

ttccagcatc tcgttatatt actggactca atccgacatc ccagtaataa ttattgccgc 60
 ttgaataggc tcagaggggc aacattcatc tatgagcgtc tcgatatatt atgggactca 120
 atcacacatc ccagtaaaaa gttatcgteg tttaaattgg cacatagggt caacattcaa 180
 tttcgaccgt ctgatatat tacgggac 208

<210> 6957
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 6957

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ttctaacgac aataactgtn tactcggatg tnctgattga gtctagtaat atatcgactc 60
gctcgaaatt gaatgttgaa gctctaagcc ctattcaaca acaataacgg tttactcgga 120
tgtccgattc agtgacgtaa tatatcggga tgctcgaaat tgaatgttga accttctgac 180
ccactcaaac gacaataacg ttttactcag atgtctgatt gaatcccgan atatatcgag 240
acgctcgaaa tngaattgtg aagctctgag ccaattcaaa cgacaataac tttttactcc 300
gatgtctgat tgacgtccgc aatatatcga gacgctcgaa attgaatgtt gaacctatga 360
gcctattcaa acgacaataa ctttttactc tgatgtctga ttcgagtccg taatata 417
```

<210> 6958
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6958

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agcttggact ntctgtngtc tgggaacctc tnctttctca ngtgtaccca aacccaatca 60
ccttgttcaa gcacgacttt ctttttgctt ttgttggtt gccttgcata gctcacaatt 120
ttcttttcaa tttgagcctt cacttgctca tgcaacttct tcacatactc agctntagcc 180
tgtgcatcat tatgcttaaa catagcaatg ttaggcatag gcaacanaat caagaggagt 240
caaaggaata aatccatata ctatctcaaa tgggtgaacaa ttagttgtgc tatggacagc 300
tcgattataa gcaaactcaa catg 324
```

<210> 6959
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6959

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tcaggctgtt caattgcttc agattggtgc acagaagggc aaatgtctgt gtggtggtcg 60
gcagaggagc ataaaccaca gagtctagcg acaagtgc attttttatt catggcccag 120
tgggttacta aggtaaccaa ggcattctaat ttaccttcaa gtttcttagt ctcagctgat 180
```


gaaaatgaat tCGTggGctac tTcatgcact cctctaata ga caatagcatc atttctggca 240
 ctaaattgct gggagtttga agccatcttc tcaattaaat ttctggcttc agcaagggtc 300
 atgtctccaa gggctccacc actggcagca ccaatcatac ttctcttcat gttactgagt 360
 ccttcataaa aatattggag aagaagctgc tcaaaaatct ggtggtgacg ggcactggca 420
 catangtttt tacatctctt ccagtattca tat . 453

<210> 6960
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6960

agcttgcttg tggngcttct atggaggctg gatctttgtg cttcaatgag gtcctttaat 60
 ggtgattctc caccatggag atgcagcgga agacaaagga gaagagggtga gaagaggctt 120
 catccactaa ggaataagcc atggaagaat gagcttcacc accaagatga gccttggata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacgaa attgaatgaa gaaaaagga gagaagttga acttngagtt gtgtctcaca 300
 agactctcat tcatcaaagt tacaacaagt gttacacatg cttctattta t 351

<210> 6961
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6961

ttattttcaa gtgttattca cttatttttc ttaacctacc aattntagat ttgatagtta 60
 gactntgaat ttttgtatga aattttttgt gctatcttct cattatttta taaagggtgct 120
 cacaaaattt caagtcattt ggatatacatt tgagggtagc tgtagttcaa acctacacct 180
 ttattttacat gacaaggcaa ctagtttgtg gcatgctgaa tgtagtgtat gactagagggc 240
 aatccatctg acttacaacc ctttgatcct gagatagata ggacatttca cagattagtt 300
 aggcatacatt ttataccttt tgatcattct gagcattcca taactgggtga atctgtgcat 360
 tctgttattg gtgattntga acatcctgat cttgagcatt a 401

<210> 6962
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6962

agcttgtatt catttgatgt atcatattga gcatcataga gttgctcatc aacatcagac 60
 attggcctat gacaaataac agtagctcta ggatctgtct caatgataat ctcgttggct 120
 tccacaagag atgcttcaat gattgactga agcatggctt cttcaaaagc ttccctttca 180
 ggagggccat gtcttttagga gtagcggcaa cttctatctt tgcttgtctt taagcaagat 240
 ctagaaaaaa gaattgtgct gcaagtcttg cttcaaattg agctcactct agttcttcca 300
 tctaagcatt cttcatctct ggtttaaatt atgcatgtat tgattcaaca atgacagatt 360
 ttggcactac cttcaatata taagacatcg tctgtggagg ctaaaaagg gatatcaatt 420
 ntacctattn cattaatctt tcccttacct at 452

<210> 6963
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6963

ngaattctgta caagttcatc anggatggtc tttgttttag aaacagaagg ctncctttact 60
 tgggcagctt tagttttctt agttaacctt gcatggagat ctgcacaga agtacccttg 120
 gctactttct ccaatagttc attccgagct gcttcatatt ccttctaaca taattaatac 180
 gagtaaaata tatcaagcta atgtcgaatt ccggcttaat aggagtggga aggatcctag 240
 aatcaactta gatgcggatt atgagtggga atatcaataa acctagagaa tacatacaca 300
 tagcattaat aggagattgc aaagactaaa ctttttcaga ggtagttatg gcaagcataa 360
 tcaagaaaca ttaccctcga tacattcaga anaatagaat tgatatattc 410

<210> 6964
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 6964

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agctngatca aaacaattat ctaatcattc caatccactc aaatcataca attgttcatt 60
caaatcattc tcaaacactc atttcataca aaacaatcca ttgcatatca ttntcaatca 120
tttcattggt caaacaagct ttttggtaca agcaaacaac tcanagtgtt gaaatttaaa 180
taactggaat ttaaagaatt gaaatgtaaa aactgaaatt aaaatgactg aacataaatc 240
ataaaataat tgaaaataaa ataaactaaa aatgttcaag atgcactaat ttatatgtcc 300
tgctcttggt ggtggtcttg tgcattgctca ttaagggtcca acacctgagc aattggtgaa 360
tcctgagaga taggctgtcc taacttagat gctgggtgcag atgggtatggc atcatcaggt 420
atgg 424
```

<210> 6965
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6965

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ctaagctatc ctatgctngc ctccgactta cccccgtgca cctcgaagat taagcagccc 60
ctactttcag ggcaactccac ttatgacact aatccggcag acatgaggaa gaatactatt 120
tggcccoctgc tcacctaataa atcgtccccc atgaactacc caccgacata atcgcatatc 180
cgggtttacca cactgtaaag aattttgtcct tccagagata agggaagatg agcgcttgag 240
agaggtaaga cagtcgggggc cttggaatta cccatcttcg atttggcgat tatctctatg 300
ccaacatcgc atccttccaa gtcaagtcca gacttgatag tacaaggaca catgt 355
```

<210> 6966
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6966

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agcnnntttct cctgcccacac acggttatta ttatntttctc tctactcgat gagaaagaaa 60
aaacaagagc taaacattaa taaataccca aactgcatg ttcttattta ttctcaagat 120
cgaccctcgt tcatgcatc atgtctgttc ttcatttata tttttctttt ccattgccat 180
```

gctttctctc tttatatatt atttgtctgc ttatttataa tttttgcagc gtcttagaaa 240
 ctttagatat cgcgaggtt tcaatgtagg tattctgggtg agatct 286

<210> 6967
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6967

ntaaaagctg gcttgtaagc agccatttca tagatacaac attctgtcaa atgttatgtc 60
 aaaccaaagc acaatacag ttaaaaagat attgtaatag aacgaaacaa aaagaagtat 120
 taagttttcg caatctctag aatacaaaag ccatctatcc tacccaaaga ccagatatct 180
 gacttagagc catacggtat atcagcaaga agctctgggc acatataact tggagtgcc 240
 acaacctaag tttagagcaa gaacaaatag ctcatattt ccccaaaaaa tgttgaaaca 300
 gtgtacataa cagaactttg gtaatatcac tcaccgacga agcaagatca tcagatgaca 360

•
 <210> 6968
 <211> 440
 <212> DNA
 <213> Glycine max
 <400> 6968

ttatttagta accatgacca actattgaag aacgtcgcag aacgggtgaa gcctttgcga 60
 aattcttcac ggataacgct acggaaacgt ttcggaagcg cctcggctta gattctgctg 120
 actgacacaa tttcttctg ctaactcgac agagagggaa gcgcctaagg ggcttgaccc 180
 gtttatgcat cactctctga cctatctata gcaaaatacg ggagacggtt gctcgccggc 240
 tcgaccaggc gagccacgtg ctttctctct ttggagggaac tttctggaag gtccaagagg 300
 gcctggttgc tattagcccc ctcatctaca acgaacaccc cgtccgatat tctttggaga 360
 atctttcttg aaacagcacg aagcttcgaa ttttaacaaa ctcgtttctc ctggttggtc 420
 acaagctgcg atacgtcacc 440

<210> 6969
 <211> 362
 <212> DNA

<213> Glycine max

<400> 6969

tctaaacctt gtacaagaat gaagctctga taccacttgt tatataagtg gcctcaaata 60
tcctaagaac ggcggggggtt gcagtaagat attccaaact gtttccccta atttaaaaat 120
tattttactt tttactcaag gtattaatct cctcaatgac aatcgtctta aatatgaact 180
caaaccaaac caccttgata tgaatatata gcaaacataa ataaacgaga ttaacggaaa 240
agaaaatgca aacctcagtt tatactgggtt cggtcacacc cttgtgccta cgtccagtct 300
ccaatgcaac cgcttgagaa gtccactaac ttgttaattc cttttacaag ttctacacac 360
ac 362

<210> 6970

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6970

agcttccana taatttcggtt aactctctat aatacttcta gaggaaagtg agatccataa 60
attttcattg tttgggactt ggatgcatta gccgtgttta gtctaacata ctaagtgaag 120
tttatgaaga aatataagaa acgaatctac cataatgttg ttaatgcatg ttcttttatg 180
gccaaatgga aaattgctaa tgcattgtat acgtactact aatggttctt tagttctact 240
ctgttntgat tctcattacc tataagtgtc atcatattat ctgaattcaa tttaccctttc 300
tctgttatgg tagggaattc ccgttttcac agatccaata gtcctatgta acatcagggtt 360
tgatgact 368

<210> 6971

<211> 345

<212> DNA

<213> Glycine max

<400> 6971

tgtagagtgt ccatgttatg ttcctagaat tcaaggacta ggagacctcc agaaaaaagg 60
ggattaagga gagcaaattt attgattggtt attgcttgca tttctattac aatgattgtc 120
catttataag caccaaatac ttattctagt tccttctaca agtcctacga gggaggctaa 180

caataatgga ttttggaat atcctaataag aaagatatat tccagcagac agaataatcct 240
aattgtccat gttatgttcc ttttagtgct tgtctccttc ttacctgcta gcaattcttc 300
tgtgttggtt gcctcatcat aacatttctt ggcccatcaa aaaca 345

<210> 6972
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6972

agcttattga tttgtcatga attgaaccct gaacttttaa tgagtatctn ctaaatacct 60
tggtagatt ctaggagatt atatgggtcc aggaaaattt actctaaaat tgggggaaga 120
aagtcaatta taatgaaaag aaaaaggta agcatcaaca cacacaacaa ataagttgta 180
tgttaaaaan aataagttgt gttgtacaaa aaggctgaaa gtaacttaag aaaagggaat 240
agtgagaagg ctatttgtac aaaacaagaa aagatcattg ngattagtct aggacttggt 300
ctctcttaga atctaaactt tcgaatccta gaagaaccag tgaaaaattt tgtagccaca 360
acctcactac aagcctgaga aagccttctg atctattata tatttc 406

<210> 6973
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6973

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gtagaggagc ataaaccaca gagtctggcg acagggtgcat atttttgatt catggccagt 120
tgggttacca ggtaaccaa gacatctagt ttaccttcaa gcttcttagt ctcggctgat 180
gaagatgaat ttgtggctac gtcatgcact tctctaata gaatagcatc acttttggca 240
ctaaattgct gggagtttaa agccatcttt tcaattaaat ntctggcttc agcaggggtc 300
atgtctccaa gggctccacc actggcagca tctatcatac ttctcttcat gttactgagt 360
ccttcataaa aatattggag gagaaagcct gtcagaaatt ggtggtgagg acaacttgca 420
catagtttct taaatctctc ccagtattca t 451

<210> 6974
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6974

ttaagcactg ggctgcagct gatgattggc tgagatgac gtggttagta atttaggcta 60
 caacatagaa cacaagagca tgatngatta gagaaatata tttatatgca tcaacttggt 120
 tgttagaaaa gaccaacat ttctacctac tgctatcact tttacctacc ttgcattnta 180
 tatttttagca taaaggggta gtttaaaatt ttgtttgaaa tatcaaccat acatgttctc 240
 tcaacaatgc tttatttatg aacttaactc angctaacat tagttccctg tgtttgatac 300
 tcggattcat ccattttaat tnttaaatac ttgacgaacc ggtgcgtttt ccggtaaacc 360
 cccattcaaa ttctcttgaa acatatatga gcaaaaagta actgcaatgg ngagtcaaca 420
 cctaactta 429

<210> 6975
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6975

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 actcaacaaa cctctagctt tggcactttg tttcacagta attttcaatt gaaatttcgg 120
 aactaagatt ggtataacat angcaccaat tataagaata aatttgagcc aaaacaacaa 180
 gcgcacttcc ctttcacttt ttttttctctg gatactgatt tttctgcaa cttgtgtgat 240
 ttttagtatt ttttctgtt atccaaatca cttggttctt tttttataac tcttttccag 300
 atgtctagca aattcagtaa aactttcagc tcanaattcg aagtaaccaa ttctcagtaa 360
 ttnttacaag ttgtatggt caagctgcc gcaccaacga ttntttttta agcatggtat 420
 attgattgcc ttgggcttac 440

<210> 6976
 <211> 337

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6976

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gaccattggt cttecttccc gcgatgcttc ttttcatgta cgcttgagt ggcttatagc 120
ctaaaccata cttgccacga tttccttggg tatttatcag gctagttatg ccgccgttgt 180
tttttcttaa acccatcccg ggttcataac cgttcccaa cataactcgg gccatcatta 240
ccgctgcac ggacagacaa tgctgcccac agaggagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagca gtttctgacg attcttc 337

<210> 6977
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6977

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tgagcctaatt tggaggtggg ccacnaggga tgggtgggttt attgcgcgca ttgtggattg 120
tggaaaagct tgtgtgcacc attcgccgaa ccgcacctag tacgacatgt gatgggtacc 180
ccataatcct accaacttga gatgaggaag tgttgaacgg tgaaacttcc tgcttttatt 240
gttgaccaca aaatggtacc tggagatatg tcgcggcggg catgatacct ttnggacgtc 300
atgtggggcg cttatccac aaccaagctt accaatccac accaaccggg catatttgtc 360
tattaaactc ttactactct actaggcact tctgctttca ctctataagt acccaccct 420
ctcgccgagt ctgcgcgacg cccg 444

<210> 6978
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6978

tacacttctt tcagagaaag gagcttaaca ttttcttctc aaaaactgaa aataacacta 60

ctaagtcttc aatctgtact taatgatgct gaggagaaaa aaatcactaa tcctgctatc 120
aaggaatggg tggatgagct cacacacact ctctatgacg ctgatgagtt gttagatgag 180
atcaacaccg agacattgtg atgcaaagtg gaagttgtga cctaaagtca acccattggg 240
gattaggcgc caaacgtgct ttcttattct ttcanaaggg tttatggggg catcaattat 300
gagatacaaa gct 313

<210> 6979
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6979

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tcaaaatatg ccacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120
ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180
tatgggtaga ggtgtcataa aggagcaagt atggaggaag ggaccttgga ctgctgaaga 240
ggacaagttg cttgttgagt atgtcaggtt gcatggtgaa ggcagatgga actctgttgc 300
tangcttgca agtaagaaac accaaacttt tttcactggg ttgtttctta atatatatga 360
ttcggatttg acatttataa gtgacaatat agcacaaaa caactgaaat ngttttcaac 420
ttctactgtt catngtggct acattcatgt tcacccgaag etc 463

<210> 6980
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6980

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catgcccgcg ncacatacat aanacagccc caccatccc aatttttgca aatcatgttc 120
atataccatn ggngcatttc atcgagcact cgggtgggcgc acgtntagac aaaaattgca 180
agagaatggg agcaatgtgg catgccccat tgtttcagaa tacaacctan gcctaaggcc 240
ttttcattca tatectcaat tcaagaagac aagcaccaaa gcaaaccaac actgccttac 300

aaatataagc atgttctcac aattcgaggc accaaaagat gaagaaagca catcaatgga 360
naacaaaaac atcaagtatg ggacacttac 390

<210> 6981
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 6981

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ttggcttaaa aaatagcata gaaaaattga ctttttctct tctcattgag atgacctctc 120
tctcctagct aggggttcct tccttggttag ccttgataa gcttcttcta cgtgtgaaac 180
actatTTTTT ttttTgtgtt ttgtttgggt cctccatgga tcccctggcc tacttgagaa 240
cttatccatt gaagaaaaca ttctagagac actaattcca gaagatgcca ttgcggatga 300
tggtcccaat ctatctcttt atctcgttgg acgttnttta tgaaaagaac catcagaagt 360
tcctcatatg aaggagagga tggttgaagt ctagcaccca ccattagaga ggtagatcaa 420
gggatTTTTT tttttgaatt ctctcatcat 450

<210> 6982
<211> 345
<212> DNA
<213> Glycine max

<400> 6982

agctaactaa tcaaatggga caattggcta ctcagttaaa tcaacagcag cccagaatt 60
ctgacagatt accttctcaa tctgtctaga atccccaaaa tgggagttcc attacattga 120
gatcgggaaa gcaatgtcaa agacctcaac cagcaacatc ttctcatct gcaaatgaac 180
ctgcccacc tctcttact ccagaaaaag atgatgacaa aaatttaaag agtaagttac 240
ctaacaattt ctatgaaggt gaatcttcca cttgtaattc tgatttacia aagcagcata 300
tccctcttcc attcccttca agaagcaatt ccaacaaaaa aatgg 345

<210> 6983
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 6983

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ntcanaaata tttaaaagcc attttaaate atttcagaaa gctttntggt cactggtaat 60
cgatggcagc ctctggtaat cgattacgag agagtaaata aaatctcaaa aacttttgaa 120
agattccttt ggccaaacct tatgcatcac aatttagaaa ctctttctaa gactctagag 180
actagatcca tcatttatct tagatttctt gaagtcttgt cttggatcaa acatgagaag 240
cgcgtttctt tggcatcatc aaaacttcat gacatatttg cttctacaat aagtggttcg 300
atagtaatat aaaaaagatt tcacataaaa ttggtaaaat aaaaatgttg tcacataaaa 360
taaaaagata aacattgtct acacatttgg ctaanaaaat ctaaattgtct tcatgcgtct 420
tccatgagcc gccttcatcg tgaccgacat ataca 455
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<210> 6984
 <211> 331
 <212> DNA
 <213> Glycine max

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<400> 6984
agcttctatg ctatttttct ttgtcgcgcg ggttttattc attgatgtac tgggtgatgt 60
caaagcatat gcacaaacaa gtatgcttaa cgctcacatc aataggcgtg tagataaaga 120
gtaagaatca caatatatac tctctaagat aaaaccactt atgcatagtc aaagagaaaa 180
aagtttacia attatcaaat tacaccacg taatgtgtcg aatacataaa tcataaatca 240
atgaaattct ctcgagactt actctaaaat gagaaaaacg aatgtgatcc atctagaata 300
gaatccactc tattatttaa gtttccactt t 331
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<210> 6985
 <211> 442
 <212> DNA
 <213> Glycine max

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<223> unsure at all n locations
<400> 6985
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aagccctggg gttggtcatt aaggtagta tcgatctatt gatgatattt ttgatagacc 120
tattgcttct taattaattg acatatgtat tttcataaga tacagtttgt tccctttttc 180
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cttttagatt ttgtttcttc aatgttctgt tggccatttt gtgatactgt tcttgttctt 240
 cgtagatttg gctatgattg tgattatggg tttggggacc aaaacttgcc tattgggtcaa 300
 ataccgtgcc gaagacgatg atgtgagaga tgttntatat ggatcgtggg catttttagtt 360
 gttggttagt ggttatatga catacaaaat tgaggataag ataaatcgaa tttataaaga 420
 ttcgtttatt tatatagtga gg 442

<210> 6986
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 6986
 gctgcaagat atgaccattt catgttcaca gcatctcaac atttcctaac actttcagtt 60
 gcttccaaga tttcgttgta tgcttctttt acttaccoga ccaaaacttc cctggttatt 120
 caattaaaca gggttaaaga caacttcttt cgatgggaaa attggtgaaa atcattcacc 180
 atcaacttaa tgatgcattg taccaaagta tatggaaaat attaaagtct aattgtgctc 240
 acctgtctgg cttgaaaact atgttcttat atacaaacca act 283

<210> 6987
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6987

ntgacagttt ccncgtttat tggggaaaca ataatagacg catagctatg gtctaagaan 60
 aacgaactgt aagagctggt tgaaattaac acagccgcga caacatttgc atcaatcagc 120
 ttagcccgtt gaacatcaat gatagttcca ttcttgtctt cacacaccac aatcttgctt 180
 ttcaccttgg ctagttcctt cacgttgctg cacaagocca tgaaaacaat tggaacattg 240
 ctggaagaga agtttcatga tagagagaca tgccagttat ttggacacca ttgccaagtg 300
 taagagtacc atgaaattca cgggtccaagg tgccagcagc cacggttatg acccatg 357

<210> 6988
 <211> 176
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6988

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gtgggttgctc tcaagcaaaa agagaacagt tcacttcgcc tctagtgaca acaacatgca 120
ttgactatgc tcaaaagagt atgctacata agttcctgat tgcattgatga gagaat 176

<210> 6989

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6989

tgaccaatcc cgaccaacc cggcatagtc ggtcagtgag aatcttgtga tgtacctaaa 60
cangcgaagc tctggcaagt cacagatnan aaggaaacca gaccaccaag caaggaggct 120
tgtgggtggct ggccaactgt gaattttgtg taatatgtgg attggggcct ctggtaatcg 180
attaccaacg gtgggtaatc gattacaagg cttaaaattg aggacaggag gctaagatgg 240
tctctggtaa tcgattacca angngtgtaa tcgattacca agcttgaaaa cgaagtcagg 300
aaacttatgg agcctctggt aatctattac cancctgtgt aatctattac acagaagaat 360
gggtcactgg taa 373

<210> 6990

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 6990

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tacaaaatgg caaaagcaga cttttctcat gctatatgat tgtacctgag gttaacctag 120
acatagtttg attattgatt tctgcattct ttgattcttc atagctgaga tgttatgccca 180
aagaattagc agaatcataa atgatcaatt caaataatca tagttaatgg gtgaactgta 240
ctttattcga tcagtgaaca tagcttcttc tttcagagta agctctgcag tcagagaaaa 300
ttctgcaaga ataacatgta atgggtttta taatgtggaa cttt 344

<210> 6991
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6991

tataagaaca aaattgcctc aatcattttc aaatatgcat gtgaattang aagcatcaac 60
 aagaatcaag cccaggctat tgtgcaagcc atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag aggagaatca aagatttcaa gtcacaaaat gtcaaaaact 240
 tttattttca aaacaattac ccatttcttg aacatatact ataattcaaa gaaaaacatg 300
 caaagtagta catgcgccac ggaatggccc aaaatattaa actaaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactgaca nattaacaaa accaacaaaa ctagcaaaac 420
 caaagaacac tttcccccac acttaaacaa c 451

<210> 6992
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6992

cgcgcgacac gcgggggtcaa nactgtgtaa ctcttgaanc ccttctgaat tcgcccgcctc 60
 ttgacaactc agctctccat ttattatata ggaccagatt gagagggtgt ttatttgatc 120
 attgacatgg ctagaaaaaa ccaaccccaa cacgaagaag aagaaaaagg actacccttc 180
 cttatattaa ttagacacta caagactaaa ccacacagta tacaatcaac gagaaaattg 240
 aaagatagca cttacgtttg cgctccaca tgccatatca gctacttggc ctcctcggag 300
 atacgcttat cttctcttcc tttggctcca tatgcttctc ctttttcttc agaaccatct 360
 cccgctgctc gatccatgac gataacttct tctcctccaa tacctacttc tcctttgtaa 420
 ccgcctcttc accaaggcag ggaccacagc cgcttggtgct ccactctagt tatacctctt 480
 gttaaagcta ataattgatt tcgaaaccca aataanccaa atct 524

<210> 6993
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 6993

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 tgaaacacaa tgctgataga gtctatcatt ttcttagcca aggtcttgta ttgagtctta 120
 ctttattaga aaagctctct ttgaagtgtga gaatctataa ttctttaaat gggttgctta 180
 tgaaagctag gaggcactta gtgacaaaac aatacttgaa tgttcttaag ttcaaggcga 240
 gtct 244

<210> 6994
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6994

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 tcattcaciaa acacttcatt cataagaaat cacaccactg aatatcataa tcaataagtt 120
 cactgttcaa acatgctttt gtacaagcta tcaacacttc aacaacaaaa atttaaaaga 180
 ctaaaattta aagactaata aagcataaac aaataattga catgaactaa ataattgata 240
 aaagaaacta ttcataattt gcaaaatttt aaaaactatg tagaatttaa aactcatgat 300
 catcctactg ctgatcttct gcatgctcgt tcagatccag cattggagca gctgggtggat 360
 cctgtgaact 370

<210> 6995
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 6995

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 ataacctcat tcgagaaaga ttctagaana gttacttggg gaatgtggaa ggggtacaatt 120
 tcgtaagaaa tgggatgggt gcttggtatc atgacatagc ttatagctat gaaggagtta 180

Figure 1 consists of 12 gel electrophoresis images, labeled (a) through (l), arranged in a vertical column. Each gel shows the results of a PCR amplification experiment. The gels contain multiple lanes, each labeled with the name of a bacterial strain and its corresponding molecular weight marker. The bands in the lanes represent the amplified DNA products. The labels for the strains and markers are as follows:

- (a) *Strain 1*, *Strain 2*, *Strain 3*, *Strain 4*, *Strain 5*, *Strain 6*, *Strain 7*, *Strain 8*, *Strain 9*, *Strain 10*, *Strain 11*, *Strain 12*, *Strain 13*, *Strain 14*, *Strain 15*, *Strain 16*, *Strain 17*, *Strain 18*, *Strain 19*, *Strain 20*, *Strain 21*, *Strain 22*, *Strain 23*, *Strain 24*, *Strain 25*, *Strain 26*, *Strain 27*, *Strain 28*, *Strain 29*, *Strain 30*, *Strain 31*, *Strain 32*, *Strain 33*, *Strain 34*, *Strain 35*, *Strain 36*, *Strain 37*, *Strain 38*, *Strain 39*, *Strain 40*, *Strain 41*, *Strain 42*, *Strain 43*, *Strain 44*, *Strain 45*, *Strain 46*, *Strain 47*, *Strain 48*, *Strain 49*, *Strain 50*, *Strain 51*, *Strain 52*, *Strain 53*, *Strain 54*, *Strain 55*, *Strain 56*, *Strain 57*, *Strain 58*, *Strain 59*, *Strain 60*, *Strain 61*, *Strain 62*, *Strain 63*, *Strain 64*, *Strain 65*, *Strain 66*, *Strain 67*, *Strain 68*, *Strain 69*, *Strain 70*, *Strain 71*, *Strain 72*, *Strain 73*, *Strain 74*, *Strain 75*, *Strain 76*, *Strain 77*, *Strain 78*, *Strain 79*, *Strain 80*, *Strain 81*, *Strain 82*, *Strain 83*, *Strain 84*, *Strain 85*, *Strain 86*, *Strain 87*, *Strain 88*, *Strain 89*, *Strain 90*, *Strain 91*, *Strain 92*, *Strain 93*, *Strain 94*, *Strain 95*, *Strain 96*, *Strain 97*, *Strain 98*, *Strain 99*, *Strain 100*, *Strain 101*, *Strain 102*, *Strain 103*, *Strain 104*, *Strain 105*, *Strain 106*, *Strain 107*, *Strain 108*, *Strain 109*, *Strain 110*, *Strain 111*, *Strain 112*, *Strain 113*, *Strain 114*, *Strain 115*, *Strain 116*, *Strain 117*, *Strain 118*, *Strain 119*, *Strain 120*, *Strain 121*, *Strain 122*, *Strain 123*, *Strain 124*, *Strain 125*, *Strain 126*, *Strain 127*, *Strain 128*, *Strain 129*, *Strain 130*, *Strain 131*, *Strain 132*, *Strain 133*, *Strain 134*, *Strain 135*, *Strain 136*, *Strain 137*, *Strain 138*, *Strain 139*, *Strain 140*, *Strain 141*, *Strain 142*, *Strain 143*, *Strain 144*, *Strain 145*, *Strain 146*, *Strain 147*, *Strain 148*, *Strain 149*, *Strain 150*, *Strain 151*, *Strain 152*, *Strain 153*, *Strain 154*, *Strain 155*, *Strain 156*, *Strain 157*, *Strain 158*, *Strain 159*, *Strain 160*, *Strain 161*, *Strain 162*, *Strain 163*, *Strain 164*, *Strain 165*, *Strain 166*, *Strain 167*, *Strain 168*, *Strain 169*, *Strain 170*, *Strain 171*, *Strain 172*, *Strain 173*, *Strain 174*, *Strain 175*, *Strain 176*, *Strain 177*, *Strain 178*, *Strain 179*, *Strain 180*, *Strain 181*, *Strain 182*, *Strain 183*, *Strain 184*, *Strain 185*, *Strain 186*, *Strain 187*, *Strain 188*, *Strain 189*, *Strain 190*, *Strain 191*, *Strain 192*, *Strain 193*, *Strain 194*, *Strain 195*, *Strain 196*, *Strain 197*, *Strain 198*, *Strain 199*, *Strain 200*, *Strain 201*, *Strain 202*, *Strain 203*, *Strain 204*, *Strain 205*, *Strain 206*, *Strain 207*, *Strain 208*, *Strain 209*, *Strain 210*, *Strain 211*, *Strain 212*, *Strain 213*, *Strain 214*, *Strain 215*, *Strain 216*, *Strain 217*, *Strain 218*, *Strain 219*, *Strain 220*, *Strain 221*, *Strain 222*, *Strain 223*, *Strain 224*, *Strain 225*, *Strain 226*, *Strain 227*, *Strain 228*, *Strain 229*, *Strain 230*, *Strain 231*, *Strain 232*, *Strain 233*, *Strain 234*, *Strain 235*, *Strain 236*, *Strain 237*, *Strain 238*, *Strain 239*, *Strain 240*, *Strain 241*, *Strain 242*, *Strain 243*, *Strain 244*, *Strain 245*, *Strain 246*, *Strain 247*, *Strain 248*, *Strain 249*, *Strain 250*, *Strain 251*, *Strain 252*, *Strain 253*, *Strain 254*, *Strain 255*, *Strain 256*, *Strain 257*, *Strain 258*, *Strain 259*, *Strain 260*, *Strain 261*, *Strain 262*, *Strain 263*, *Strain 264*, *Strain 265*, *Strain 266*, *Strain 267*, *Strain 268*, *Strain 269*, *Strain 270*, *Strain 271*, *Strain 272*, *Strain 273*, *Strain 274*, *Strain 275*, *Strain 276*, *Strain 277*, *Strain 278*, *Strain 279*, *Strain 280*, *Strain 281*, *Strain 282*, *Strain 283*, *Strain 284*, *Strain 285*, *Strain 286*, *Strain 287*, *Strain 288*, *Strain 289*, *Strain 290*, *Strain 291*, *Strain 292*, *Strain 293*, *Strain 294*, *Strain 295*, *Strain 296*, *Strain 297*, *Strain 298*, *Strain 299*, *Strain 300*, *Strain 301*, *Strain 302*, *Strain 303*, *Strain 304*, *Strain 305*, *Strain 306*, *Strain 307*, *Strain 308*, *Strain 309*, *Strain 310*, *Strain 311*, *Strain 312*, *Strain 313*, *Strain 314*, *Strain 315*, *Strain 316*, *Strain 317*, *Strain 318*, *Strain 319*, *Strain 320*, *Strain 321*, *Strain 322*, *Strain 323*, *Strain 324*, *Strain 325*, *Strain 326*, *Strain 327*, *Strain 328*, *Strain 329*, *Strain 330*, *Strain 331*, *Strain 332*, *Strain 333*, *Strain 334*, *Strain 335*, *Strain 336*, *Strain 337*, <

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<223>      unsure at all n locations
<400>      6996
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<210>	6997
<211>	433
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      6997
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2995

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 tangtgcatt tcccactacc attgtangaa tgaagggacc aaattcaatg gcttcccata 420
 tattttaaate tat 433

<210> 6998
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6998

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 aaggggccac tttccctttt tactgtgacc cacactcaac cacaaaagtg agaaaaatct 120
 gacctttgaa acgctaaaat catgcctcgg tttgcgtgcc cgttctctgg ttccagttcc 180
 tcgcgtttct ctgcgtccgt cggggccagt tttcgaaagc aagcaatata tatatcaaaa 240
 cgctcagaat aaaaccctga gcgtggttca gaggttggtt ntgttaaatt ctaagtcgca 300
 cgcaaaacga tgatttttaa ctaattaatt aagaaataac ccantaacct ccagttatgg 360
 atttctcttn ctttaattagc ctaaccctg tattttgccc ccactattcc tacttctacc 420
 aagaacatat aggcatatac act 443

<210> 6999
 <211> 282
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6999

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 tttccctttc cttgttntga agctcactac aagccttaag tgaaaaacca tgatattacc 120
 atatccttaa gggaatttgg agctttggaa ttgttttggg aataagtgtg ggggggtttt 180
 gtttcattgg acaacttgtt ttgttgacta tgcttcatga tgtattttgc gccatacttg 240
 atgtacattg tatattggct aaatgggtga catgctgaat ga 282

<210> 7000
 <211> 469

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7000

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gctgangaaa aaaggttcaa catctttggc actcaggatt cactaaaaat aagtgaggaa 120
aagaagaaag aaggaaaaaa tcccagctga gacgctttca taatgaattc atgacattgt 180
tgtgatcaat tacgctaatt gtcttcacca ttctttgcct ttcttcgttc gntcttcac 240
gttcacgat cttcaaccgg ttagttttcg atttcgaagc tntgaattca ttatatgcac 300
ccttaggggt ccattcttgc tttgtatgtt ttcattctca tctcgtttac tttcgggtatt 360
cttttcttcg ttntaaacga gtttcgactg atcgtntaag ccgtaacctc aatgaatgat 420
aaaatgaatt tcaattgatc atttgtgttg gaatgggttg taatcatcg 469

<210> 7001
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7001

agctngctta tggngcttct atggaggctg gatctttgag cttcaatggn gtcctttaat 60
ggtgattntc caccatggag gtgcaacgga agacaaagga aaagaggtga gaggaggcgc 120
catccattaa ggaataagcc atggaagaag gagcttcacc accaagatga gccttggata 180
agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
ggagcacgat attgaaggaa taaaagaggg agagaagtgg aactttgaag tatgtctcac 300
aagactctca ttcatcatag ttacaacaag tgttacacat gcttctatct ataaact 357

<210> 7002
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7002

cttcaccttt ggtcctcttc atagttggtg catgagaaaa cattctctat tttcatctcc 60

cactccaagt aggctccga atcggttctt cctttaaaagg gaggaatgct gagtttaata 120
ccatcaattc ggttttgtct agggaaaacca tcattccctc ttctcctcct ttcttcttca 180
ttatgatctc tggtcaccat ttgatccaac ctctcatgga ggcgcatcatc tcgttggttc 240
attaacctct ccaaagtgtg catcaaagct tgcattagga attgtgaaag cccccctcca 300
tcattangat ttgttcctgt catctcaaac aaacaaatca natgtaacaa gacaattata 360
gttggtggtt gaatacctta nacaaatcan acgtaacaag acaattatag ttgttggtcg 420
aatacctcac ccaactcaagt gtatcacacn aatatggctt ttctctaata a 471

<210> 7003
<211> 361
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7003

cgaaatgcag atattgtttc atttcggaag agtgcgcaac caaaaagtac agtctttcca 60
tgactattca taccacaaa aattccaaat ggcacttcat aagaattgac cttgtgtgta 120
gtatcaaata caacaacatc accatattnt tggtgcccat cagagctaga agtatgagac 180
caaaaaatat gctctcacct tctctcttca tcacgtggat atgcatactg gaaattatag 240
ccacttcttt ttgcatcctc accgtacttg agaagatctt ggcattcattt ctttacttta 300
tttttggttt cacaaaaaat acgaatgcc tttcataaat ggaaatacca tgcttacatt 360
t 361

<210> 7004
<211> 378
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7004

ctgagaaacg ctgatcatgt taaagggttc attttcaatc atatttttat cttctcttaa 60
cttagctctt tcattttatt ttatttttaa aaaaactttg gaaaacttta cgggtgtatta 120
ttttattgct attcatggaa gtggaagtat ggtccctcat attttgtaat atgaatatgt 180
ccttacctta cctgaagaat atccacactg ccatttccat tatctctgaa tgacttttat 240

attgctccgt tttctttcca agtaacgagt aaacatagct ntgatgcata aatatgttga 300
 ttgaattgac tccaaagttc caaatttgac catgaattgc aatgtacgta atanggataa 360
 acttaaatta actaatcc 378

<210> 7005
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7005

agcttattga ttntgataat atcactatag aaaatacaac attaaaagta atttaaacac 60
 aaaataatca atctttatat tgtgtntttc ttgtcagatc tcattccaag tgaatttatc 120
 catgttatta cggatgcaca tggtttaccac aatcatgtga ggccttngca ggagaagctc 180
 cataaccagc caaaaccttt tccagtatgt gtaatgttta gcacttcttt tactttatat 240
 tgtgactctt ttacttgttg accccctaata ctacttcttg tagactttgg agatcaatcc 300
 caaaatgaga gatatagatt cttttgtggc tgttgatttc aagctcatag gctatgatcc 360
 tcaccagaag attgacatga agctggctgt ctaaaatctg gggattctca ctccttcgaa 420
 ctg 423

<210> 7006
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7006

ntgattnttt tanactntnt acactanaga gaaatcatat gacaattntg aagaagaaca 60
 tcatagggca taccctcttc atcgtctgat gaagtacaag aagtattaga tttagaataa 120
 gttttacctc gaccttatca tttgtatctg ccatgagata gatgttggct tggatcatcat 180
 ctgaactatt acttttctca ttgtttgagt catctcaagt gatcatcacg cttttctttt 240
 tcttgtcccc aaaatatctc ttttttagtt ggggacattc atccttcaag tgtccaggtt 300
 ttctatattc aaagcagatg atctcattgc ttttctcctt ggtcttcttt ntgaatctag 360
 aatcctttcg tctgtagcag ggttggaat tcccttcttc tttgaattct gatactgggg 420

acagatgtcg acaggatgtc acgacatc

448

<210> 7007

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7007

agctttcgag ctnttcattg gagtattttg atcttgcttt ggtgctctag attgtgggaa 60

tgtactcaaa tacgtggggc aatattggtt tgttttcttg cttggatggg ttgaattgag 120

gatttgtatg agatgaccct atgcctataa tgcatttttg agcaatgggg catgccgcat 180

tgtccccatt ctcttgctat taatgcctaa atgtgcgccc accaagtgtt tggtgaaatg 240

cctcaatggc attngcgcac gattctgtan ggatacaacc tatgggaca 289

<210> 7008

<211> 405

<212> DNA

<213> Glycine max

<400> 7008

tttgctgatt agttttcgcc gatgaaagga tcgaagtggg tctaataaga cgcaaactctg 60

atcatcatgt ttgataatac caaaaaacct aggccaatga agatggtgag aattaaggag 120

aaaccattg tgtgacttgc attcctatac aggccaagtt tccaccaacc caacaatgtc 180

attactcagc ccataacaaa ccttcttctt acccaccacc cagttatcca taaaggccaa 240

tcctaaatca accacaaagc ctgtctaccg cactttcaat gacgaacacc accttttagca 300

caaaccacaaa caccaaccaa gaaatgaatt ttgcagcgaa aaagcctgta gaattcaccg 360

caattccgtg tcctatgctt gacttgctcc atatctactt gataa 405

<210> 7009

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7009

agcttaaaac cttgatggga taaactatta taattataag aatcactaaa cccagataca 60

tatataaaag agaggttcat acaaaaagaa ggaaaaccaa aaaccagaat tgtacagctt 120
gctgaaagca acacagatca atactctctt ataactaaca cgaagacagg aatacaccac 180
taacataaga taacaagctt gcaaactttt taacttttca gatacaacat ataaataaac 240
cctagatatg taaacactca gaagagatcg agaaaagaaa cccacatcaa ttaaggaaaa 300
tagttttacaa aaagagcatg cactaaaaag ctattaataa agtagatcga ctagtcaaat 360
taa 363

<210> 7010
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7010

tncgctnttg gtgaataata agaaaaaagt catctatcca aaattatcac actcctttct 60
tcatccaaca atgaattggg ctatttaagg aagatgatac acagcattat tgcacatctc 120
tgtagaagca gccactatag taaacaatct tctctatcta aaatggagtt tgttctaaat 180
tacctaaatg ccaactgccat tggagttctt tctataaccc tcttcttttt gtttttgtat 240
aatcccttca aatttgcatt atgtaaaaaa gaggtccca aagttgcagg tgcattggcca 300
atacttggtc acctaccact attgagtggt tcagagacac ctgatagggt tttgggtgct 360
ttggctgata agtatggacc catattcacc atcaactatg gtgtcaaaa 409

<210> 7011
<211> 341
<212> DNA
<213> Glycine max
<400> 7011

acggagattc atgcatcatg atacaatttc actgtaaagc gggctcctaat tggattccta 60
atcttcaact tacctatttg gaagtgcacat catggcagct agggcccgagc ttttcattgt 120
ggattcagtc acaaaaaccaa cttcattatg ttggactatc tagcacgggg agtttcgatt 180
ctattccac acagatgtgg gaagcacttt ctacggtttt gagtgtaaac ctctctcgta 240
atcatattct tggagagact gggactacat taaagaattc aatatctatt ccaactattg 300
atctaagctc atatcacttg tgtggaaatt accctatctt t 341

<210> 7012
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 7012

taaggcaatg aaatatacaa tatacctaaa tatectcttc ttctacagct agttctccct 60
 tcttctctga ggaggggtctg gacctcgaaa tccacaagct atcaatttat taccaatgaa 120
 agctgaacat gcagacaccc catatgaaca tggtcatagt atgcgaaagc tttgcacatt 180
 tttaatgttt acaatatctc gttagaaaag gtctcactcg taacatgcaa catgttgact 240
 cacaaatttc taaggaaact taataccttc ataactatca tcacatagat cagatctctc 300
 aagtg 305

<210> 7013
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7013

agcttgagtt tactagtant ttgtttatga aatcagtttt caaaaactcg aaagtgaatc 60
 aaacctgccc tanaaaatct ttggtttctc tcttcttcta tattcttccc attctactca 120
 ttttttctct tctttcccta tcacctacac ttgacatggc agtataacac cccaaacttt 180
 ttaaccccat gttatagaat catcaaatat acatatccac caaagaagta caaacataga 240
 catcatactc aagcttactt ctcatatgt aacctggat ttctttccct aaattaaagc 300
 aaccaatca aatgactgct tgtagagcac tagttattga acatgaat 348

<210> 7014
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7014

nggtggagtt taaagaaaac cgtggaaggt tcgagctagg atataagccc acacatgccg 60
 acataaggaa aaacacccta aaaagaaggg accgaagcat gcgcccgcag caagaaccgc 120

aagtggaagg gacttcctta tgtcatatca tttaaagctt catcagcgta cgctggatgt 180
 gtgaaaggcg gatcgccatg atcaacaatg aagtcctca agagcaatca aactcagtat 240
 ggtcatgccc tcctgagttc gagttgggaa actggcaaat tatcgaacaa cccaaaattn 300
 tcatggcaaa cataatggta attgttagtc caaaccttat 340

<210> 7015
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7015

tgacctttct gtggattgaa gcaaagcttg ttagagttag accaaagcat gccctttgct 60
 gggccacgcc gaaagaacac tntaattgtg cccatcccct gaacatttgg tcatgaggtt 120
 tgtaactcat gttcccaaga agtattatct aatgttagtc acaaactcaa cataacaatt 180
 tgcataaaat ttcttgatta atttgagcaa gaacaaaata ttgttgatgg taggagacat 240
 aaaataactt aatgttgac gacatacatg gtcttgaaag cgaggctgaa atgcatctgg 300
 ctattgttgg agaatagaga gtgacaatgt tacattccct ttgttcgcaa ggactcacga 360
 atactataat attaattaat atttcttctg gacgtatatg taatggggtt cctaacttct 420
 ataatctaga aaatgaacac ct 442

<210> 7016
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7016

ctctaggatc ttcttgactt ctcttgataa aacttcaact tgcccattgg tctggggatg 60
 gtaagggaag ctaccttgtg tctgacacta tagtgctgga ggactntctt gagttggatg 120
 ttacagaaat gagatcctnc atcacttatc agtacccttg gtgtgccaaa ccttgagaag 180
 atgtttttct tgaggaagcg aataatagtc tctgcatttg catggttcac aactatttct 240
 tccaccatc ttgttacata gtccacaacc aatataatgt attcatttga gtaaaatgat 300
 tgcaatggac caatgaaatc catccccag cagtcaaaag cttcaaccct cagaatgttc 360

tatagtggcg attcattcct tctgga 386

<210> 7017
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 7017

taccaaaca atatcataca ataatcaata aaaacgaaga gttatcgatt aaaacaaaga 60
 gaaaacacga aacaacttag aaaaacttgt gatattcaag caaactaatg agtatgcaca 120
 tgaatcaaca aactaaggca caaactaagc aaaaacaaat gatatgagta gcaatatgag 180
 tcacacacta tgcaaacaaa aagtattttt tgctagatgc atccaatatg cctagttcat 240
 ttctaataa aaagaacctt tctctagtaa gcggttttagt gaaaatatct actagttgat 300
 gctcactatc aatgaactca atgcagcagt caccttttaa cacatgatct ttaagaaaat 360

<210> 7018
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7018

gcaaaaagat gatattgata accactcgtg tatttccgcc cgcacgcgtg actcataagt 60
 cagtatgaca gatcttttga gcacggaaga tgacgttaat caccgcgtgt aaacgggctt 120
 gttggccgca attgacgaat ggcgcataat acgacagtag tgtctacgtg ctatcanagc 180
 tttcgtctta cagacagcaa aaagtttata cggataacca ctcggttatt ttcgcgcgtc 240
 agcgtgactc acaagtacta tgacagatga tgtgagcgcc gaagaatacg tatatcttca 300
 cgtgtcaacg gagctgttng tcacgatttg cgaatggcgc ataaaacgac gcttgtctct 360
 gctgggtggc gcccttttct gttacggact cacaaaagtt ataggataac cactccgtgg 420
 tttcgcccgt cgcggactaa aagtcagatg accatcttgg agcggggaga tacataaatc 480
 tctcttn 487

<210> 7019
 <211> 350
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7019

agcacgcaga gactaacgtc gtcttctgtg ccattcatct atcgcggnccg acaagcccgt 60
tgacacgtgg agatttacgt tatcttccgc gtcacaaga tctgtatact gacttttgag 120
tcacgctgac gggcggaat acccgagtgg ctatacatat aaaatttttg ctgtctgtaa 180
tacaaaaagc ctgatagcac gcagagacta acgttgtctt ctgcgacctt catcaatcgc 240
ggccgacaag cccgttgaca catggagatt tacgttatct tccgcgctca caagatcagc 300
catactgact tttgagtcac gctgacgggc ggaaataccc gagtggttat 350

<210> 7020

<211> 224

<212> DNA

<213> Glycine max

<400> 7020

cactgcctca agtagttcac gatctgcttc cataggataa cacgttgcct aacagttact 60
atcaggtcaa gagatcttac gcttgacta gccagtgatg gaatgaatcc acatggcaat 120
ttaagcactc aaaacagctc atggccagat ctactattaa ttacaatct tgctcctgag 180
ttgtgcatga agagaaaata catgacgtta tcgatgatga tadc 224

<210> 7021

<211> 281

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7021

gagcttcatc atgcgttgct tccatcacac tgccgactct atagttatta tgtcctatnt 60
gtttagttga tatggatata tctctacccc tggatttttg ctcttattgc tacgtacttt 120
tgtcacagca gccttagatg gctaccaata tgaattggcc tgagctcggg tactgatgac 180
tctgctctgg atgattaaca cctgtgaggt tattctatga gattgaatca gtttatggaa 240
caaagtgtgt atgattgtaa tgctgtgcta catcctttct c 281

<210> 7022

<211> 580
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7022

actctccctc tctttcntct tccacnnnt cctnnncnnn nnnnnnnnnn nnnnccgcgc 60
 gtgatgatgc tttgatncat cagngaccga ganaaaccaa acttaancta cctcacttaa 120
 atctacgaag gctgtgtgat tctatcctat tgccataaga ggaatatgac gacgatgctg 180
 ggatctgatt cctccaacgt gtgatagacg tttagaaata taagctccaa catacatcac 240
 actagcatga ttgattagag aaacgtagat atatgcatga gctgggtctgt tagaaagacc 300
 caacaatact atctactgct cttaatttta ctacttgca ttcttactcg acctatccta 360
 aacctacctg aagtatgttc taaatcagca gttattaatg cttgtttcag caatgcctta 420
 tttctaaatt taaccacccc tcatactaatt ttacctcact tcgatattct acttcatctg 480
 ttttaatcta caaatacttg accatacgcc gtgctctccg aaacacgaga gtaacctcga 540
 atatatttgt acgactagac agtggaacgc aagtaacccc 580

<210> 7023
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7023

aattaagcac cctatcagta taaagatatt tatgaagatt acctcaggtc ttctgtttct 60
 tctgcttcaa agattgaagt tctgaagaca cattgcttaa attcttttagt tggaggaaat 120
 gtttcttgct cattagactc agattccttg actatatttt ggacaacact gggttctact 180
 tcatgaattt ccctgctttc cttgtatttg catcctcctt cttcagagga atacatccaa 240
 cgaaaccac actctgttat aaccacttca tcgttggttat tttcggtttg aacaaagaat 300
 ntaaagttaa gctttggatg atgagtgggtg ctcttatcat taat 344

<210> 7024
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7024

acaaaaagga gttagtcaat actgggatgg tattgatgag aagagtttaa tttcgggtgt 60
 tagccatgga acatctatca tgttcttgaa agatgcatgt gttccaaatt atacggcgct 120
 ggaggacaaa gcaacaattg atgggtgtag atgatattga caagcttgct tctgccaatg 180
 actttgtcac accattcgaa gttgatcgat caggatgctt gccacggaaa ttgnggaggt 240
 tattatggcc atgggtcccc ctgtgattnt gtgtccttat gatatcccag cctagaagca 300
 ttataaagac gagttcttta tagtagcatc tacctacaat nntcttgtgg gcaatgttga 360
 caggtgtgat ccactact 378

<210> 7025
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7025

tatctaanac tgcgattgtg agattgatgc ttattcggaa aacctetaat cctgcccatt 60
 tttagtctaa tattagttca cacttgtaat tctaaatcta atatggctga aaaatagaga 120
 acattgggtt ccttttctta tacgtatttt tcaatttttg ttctacttt attatgtgtt 180
 tatagacttg agtgaaatga atacaaactc aacttttgga tcatattatg aatcctagat 240
 caattgtgct tcgtctatat atttcgtggc atcataaatt atcttgtaaa gcctttcatt 300
 tgtctatatt tataaatcat aaatataaac aatatcatag atattctttg tgaaattcaa 360
 tattaaatct tatatattca ttgtttttct ttctcaacaa ctctcatatc tccatctatc 420
 tagnttatct atngactntt atgcggatct acatata 457

<210> 7026
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7026

agctngcttg tggagcttct atgaaggctg gatctttgag cttcaatgag gtcctttaat 60
 ggtgggtttc caccatagag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120

catccactat ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg agagaaggct ccaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacgaa atttaaggaa gaaaaagga gagaagttga actttgagta atgtctcacg 300
 agactctcat tcatcaaagt tgcaacaagt gttacacatg cttctattta tagact 356

<210> 7027
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7027

tgggctcttg cctcactcac cgctcttttg gtttcatttc tagctatctt atacttatcc 60
 caagtttcag aatttctaca cctagaccac tccttgaaac actccttttt tactctaact 120
 ntgctctgaa cactttcatt ccaccaccac gattctttac ccctaggtcc aaaacctcta 180
 gattcaccca acgtctcttt agccacttta ataatctctt gggacgtctt gttccacata 240
 tcatttgcac ttccttgtga ttgtccacat catccctccc atatcttttg ttggaagatt 300
 ccttatttct cacccttcaa gtgccaccat ttgatccttg gtgctaccat angacttctt 360
 ctctntgccc tatctctaata tcttacatcc ataacaaaa ctctatgttg ggtagtcaag 420
 ctctcttccg ggataactnt acagttcaag caatacttcc tatic 464

<210> 7028
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7028

agcmttgacg atttggtctt cgccagtgaaggatcgatg tgggtccgaa aagaggcaaa 60
 tttgatcatc ctactaggac gactgagaaa actggggcaa atgaagaggg tgagaaagag 120
 ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaaccaaca 180
 atgtcattac tcagtcaata acaaacctcc tccttaccca ccaccagtt atccacgaag 240
 gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgacga agaccacctt 300
 tagcacaac canaaaaaaaa acaccaacca agaagtgaat tntgcagcga gaaagcctgt 360

agaattcacc ccaattccag tgctctatgc tgacttgctc ccatatctac ttgataatca 420
atg 423

<210> 7029
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7029

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acatagtggg 60
acctggagat atgtcacggn ggtcaggaga ccttgnggac ntcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaccca ccccgagcat agtcggtcag tgagaacctg 180
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aanancacaa 240
agcaaggagg tttgtggtgg ctggccagct ctgaaacttg attgatatgt gagatatggg 300
ntntcgtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagatagg 360
aggctaagat ggtctctggt aatcgattac cacgggggtgt aatccattac 410

<210> 7030
<211> 351
<212> DNA
<213> Glycine max

<400> 7030

agcttctact tatgtggcag ggcgggcttt cttcaccttc ttgtctccaa cgcgaacttt 60
gaccattgtt cttccttccc gcgatgcttc ttttcatgtc tgcttgagtg ggcttatagc 120
ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgcgcgtgt 180
tttttcttaa acccatcccg ggctcataac cgttccccaata cataactcgg gccatcatta 240
ccgctgcacg ggacagacta tgcttgccaa agagggagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagta gtttctaacg attcttctgc ggcttccaca t 351

<210> 7031
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 7031

tagttttaagt tagtctaaac ctaggagggc tgtctaaatt gagcctagtc caataagagg 60
 aatctgagga cgaagcttgg attgattcag tccaacttgg gatcgagggt tagtaattta 120
 ggctacaaca tagaacacaa aagcatgatt gattagagaa acatccttat atgcatcagc 180
 tggctctgtta gaaagaccca acacttctac ctactgctct taattttact tacttgcatt 240
 tttactgttt ttatcctaga cctagtttaa ttatgtttta aatcatcaat tatcaatggt 300
 tctttcaaca atgccttatt tctgaattta acccggctct agactagttt ccctgagttt 360
 gatactcgaa ttcactgtgt ttaattntta aatacttgac gatccgctg tgctttccga 420
 aaaccagatt tcccttgaat ata 443

<210> 7032
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7032

cccatggaag ctctaataat ctccacact atntgggatg ggccattctt ggatggcctt 60
 gattntctca aggtccactt ggaccccat tctgccaaact acaaacccta agaaaactat 120
 attatctaca caaaaagtac acttctctat atttgcatag aggggtgtttt tcttaaagac 180
 tgaaagaact tgctgagat gtcttaagt ataacttagg ctctactgt acactaaaat 240
 atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat tatgcataag 300
 cctcataaag gtgcttggtg catttagtgag cccaaaaggc atcactagcc attcatacaa 360
 accagacttg gtcttgaaag cgggtttcca ctcatcacc tttt 404

<210> 7033
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7033

tctcaaggaa ggtntcttaa gaaagcttct caaggaagct acctagtcta tcaatagaag 60
 catgtgtaac acttggtgta actttgatga atgagagtct tgtgagacac aactcanagt 120

tcaacttctc tcccattttc ttccttcaat ttcgtgctcc cccctctctc tttctctccc 180
tctttgtttt cctccattga agcatcctct ccaagcttct tatacaaggc tcattcttgg 240
ggtgaagctc cttcttccat ggcttattcc ttagtggtg gcacctgctc tcacctcttc 300
tcctttgtct ttcgctgcat ctncatgggt gaaaatcacc attaaaggac ctcatgaag 360
ctcanagatc cagccttcat agaagctcca caagcaagct ttcattcaagt ggtatcagag 420
cacaagagct tcaagt 436

<210> 7034
<211> 477
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7034

agcatttaca tgcattgttca aaccatattt actatacttc gatcaactga tgcaatctat 60
ntgattgaaa agataattta tattacactt ctaatgtagt cgacaactaa aaaaaaatat 120
aacagagagt aatgcttaag ccaatcaaat caaatcattt agaattctcat cattactatc 180
atgcatctca aagagaagga gaatcaggca tcataatgta tagcacaaca aaacattaaa 240
agaaaacatg ccttctaaag ccaaccaagg gaaaaatgta tttatatttg tgaactttnt 300
caaaattata acacatatat aaccatatat aaaaacatgg ttgaacaatc tgaccacatg 360
cacaacacat tccacacatt atttctgaaa atgagtggta agggaatata ataaagcatt 420
gttattaaaa ctgtatgtgc actaagataa caagggtgct atgacaaaag gaacaca 477

<210> 7035
<211> 367
<212> DNA
<213> Glycine max
<400> 7035

tctgcacgtc aacaagcaac accaaccaaa tattattttt gcgttctcat taccacctca 60
gttgattttt gtgtttccat tccaactgca tntagagcaa cctcacctca tttctacatt 120
tccattattt gttctaggaa gctcccttct cctctctctc gtgatccca ctttgctggt 180
gtgttgccac cgtcatgttg acttgatttg aatggcttaa gcactatttt ctgtgagatt 240

aattctctaa ttgtagacta cattacaaga gtagtatgga ttatcttttc aatcaataga 300
 ttgcattagt tgatcggagt ataccaaata tggcgcgcac atgcatctaa aagcttgag 360
 ctgctat 367

<210> 7036
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 7036

ttgttggtgt cacatctgaa tgagagcttc ttttggtgag gtatgacttg ccaattccat 60
 ttgtaagctt tgtggctatg aatgacatct ttcaaaagggt accaaatagc caacgtttac 120
 acggtgaatc ctatggaaga taccaccatg cttttatcag agtggctagg atattgctag 180
 taatccttgg ttatatgaaa gtatgggtct gactctcgac gttgttagga ttttggaaaa 240
 aatacttgat gagctgaaca ttggggaaca tgata 275

<210> 7037
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 7037

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60
 cctttccttg gtttgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa tttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct cacaggctat 300
 tcaaaaaaaaa aaattcgaat aaaaaagaat agctatatag ttgagtgaat aagatcttat 360
 atggcacacg aatgatgaca ctctcggttc tactcttcac gtgtaaaatt tatcttcact 420
 tca 423

<210> 7038
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7038

ggtggaatc ctgnaacca gaccattctt gggaagggtt caagatcaca atctcccaaa 60
 ggtatgaagc atctaacttg nggaatgctt ttcaagcggt gctagcgctg gaacatgaat 120
 aaacagtgcg ataattcata ggccattcgc agaagcatgt cagaatgggtg aagggtgttg 180
 aggaaccgat tctggtggag atgtttctca tcgagctgaa agacgagatc aacactgagg 240
 tagcgctcca tgaacaaaa cacttgatgg aatctatggt c 281

<210> 7039
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7039

tcttgaaatt ataacttctt ggagtgcctg atacatacaa ctggtgggag tcgatgaaat 60
 tataatagtt gcatacgatt gttaagtgtg agggatcatt gaagtcaatt cggatatacc 120
 ccttacgggt tttctcatga gaatacgtgt ctgcgatgtg tatgatactc tcgcgcacga 180
 tacgaatata cttgagcgct gattgggtaa aggatcatca actattcttc ctatgcgcaa 240
 gattctgtct aacagangcc cattgaatgg ctataattta tat 283

<210> 7040
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7040

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 tgctccttca aagtgagaat aatattcttt ggtttgacca ttgactttgt catatcacga 120
 ataataatct tttcatcctc agtcagtcaa ccaacatatg gatgtccaac gaatgactta 180
 tccaatgcat gattatgagt ctcacatatt aacttcatca tccactcttc acctcccaac 240
 actggttttcg caccctgctt aaaggacac ccacattntc gactgtcaat caccgttcat 300
 actagatctt tctggatgtt ntggatttcc acttttctca caaccaataa aacaaatgag 360
 ggtnttcctt tcttttctgt atgtgtctga ccttattatc atagccacan aaccaatatc 420

atacgcaaca gtatgaaccc cattgcatac gtctcacggt agcanatacc taaaa 476

<210> 7041

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7041

agctnnnggga nnaaattgaa gatattntgt cttttaaatg cctaactccc ttgagtgaca 60

tttgtattgg ttgttatctt gtgtgttgcg tcttagtaca tatcgtatct attatgcac 120

cttcatcatc ataggaagtg tgaataaaaag tttctatggt agaaagggtt cttcaagagg 180

caaaactttt gttttcatcg attacagggg tgtcataatc gattacaaca agttgtttga 240

agcttgagaga gttgatctta tatcgggtta atcgattaca gtagtctcat aatcgattac 300

cctgctgttt gagacaatga ctgattgatt taggagtcac tactttaatt gattcccaag 360

tggtttaatt gattacttct ctntcattta gtagtcacaga agttaacaag aacactntaa 420

tctattaca 429

<210> 7042

<211> 435

<212> DNA

<213> Glycine max

<400> 7042

cacactcatc acggcggaac acggagagtt ccgcgataca ttctagagag accggccac 60

agcaciaaga cgaaaggcgc gaaccatcca gatccgggag caaccccaaa taccaatcta 120

ggcccccccg gaacatactg gaagaccggt cgcccatcga cgaagccac gagcgtaag 180

ctcaccacag ccgcggaac atggccacg ggcccccccg ctgccgaacg ccccgcaaa 240

ccccgacact ccgggaaacc aattgaccta ccccggggaa aggcacacac ccaataaacc 300

cccacgcacc cacaccgac ggctcccccac ctcccgaca ggacacaagg gcaacacaac 360

actcgcgggc cgcacacacc cccgagaccc aaggcagcac acctcctaca cctaaacag 420

gagggaccgc ccccc 435

<210> 7043

<211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7043

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agcttcttgc gtagccgctc ttggtgctca gaatatactc aaaacaaatc cctcttatta 60
ctagctattn tgaattcttt agttcctaaa tgtacaactt tcaaattggt gctcgctccc 120
ctctttcttt tctgcaaaaa agaaaatcaa atgctatcaa aacatggatg aagtcctaag 180
aaaatcaata tcaaagaaaa catggatgaa atcacaatta aaaagcacia ctacctatct 240
ttcagagtcc tttggttaat atgtcttgct tccttatgtg gtgggggtnt gtttaataat 300
cttatacggt tgccttccaa aaaaaactta tcaactaatc tcttttcatt aatccaatnc 360
tgtatgttat tgtataaaag atcatgggtt ctccacctgg ctgcactact 410
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<210> 7044
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 7044

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tgtcgctgga gctgacccat cacctgccct aactctttca aactggatgat tcctaggctc 60
ttgaccttga cttgatagaa cctcttttta agcgaaggcg cctgactcga tcctatgttt 120
tactaaagtg aaacaaaacc cagtgcgaat caaaactcta acatctatca tgggtggaat 180
ggatgaatgc atgaagaaat gcacatgaca cagatgcaat ttataaatac gggagcccgg 240
gaaattgtcc ccttcttaga tacaacattc gggtagcata gcgcccgcgc tatgcattta 300
agaaggcgac acggaccctc catcggttta acaaagtaag gggatcaaga cgcaatccgt 360
gcatgatgca tatgtgaaag gcacaacacg aggatgtaca tagtacgaca atatccacaa 420
aaacatacaa gcataggcgt acatgacatt taggactaca tgca 464
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<210> 7045
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7045

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 gaggcttcca aggattgtgt tgccttctct aacttttctt ccttttccag caataaggta 120
 aagctacaaa attgagtctc ccaatgtttg atataagttt tgtaagacca tctttaattt 180
 gaacaagtgg cttaaagggtg taaatgcaca gtccttccaa gcgagcaact canagggtgta 240
 acaccatctt agaatttcgt atgagcatct tcattaaaaa tggaagactt gaacgaaaat 300
 ggttggttg ctcctcattg ttctgggaat agataaggat ctatataatg agcacaatgt 360
 atgaaggatg gaaaaactcc aatntatgta atcccaggtt aagacttgta gttcacacta 420
 atcaatgac 429

<210> 7046
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7046

attggcttcc tcatcatgtg gcttatgatg ttacaatta aatgatcctt tgctaccctg 60
 ccatgagaca cacacagata cacaacaca cacacataga gacagacaca cgcagactca 120
 gacacagaca cgcgcacaca tgaggaggga cacagacaca ctgcgagagt cacacacaca 180
 taaagacaca gacaaagaca caaacacact gagccacaga cacacgcaga gaccacaca 240
 cgaagacaca cacactgagt cataaacaca cacatagaca aacacactca caaacatgga 300
 cagacacaca cacacacata aagagacaaa cacacacaca cacagagtaa gagacagaca 360
 caaacacaca cactcacaca cacacagata aagagacana cacacacaca cacacacaaa 420
 gacacacaca ctgagggtcca gacacacaca 450

<210> 7047
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7047

tgtggcttca acttgctnta cttttcntag ttttccctct tcatcaataa gttnttcttg 60
 aatatgattc tcccacgtag acctttaagg ctttagttct ttaaagatat gcaatacgcg 120

tgtagtgaaa tgttgatgga ttggcaagtg caccaattcg tcccaagtag taaagttaaa 180
atcgaagtcc gagtgtcgaa tccacagaga ctttgtttat acttaggtag atgattat 240
aattaagaaa aagatttana aaggttgtag aaaacagtaa atcaaattgc ttaaaattaa 300
atcaaacaag aaaaagaatt aaacatgaat ntaaattaat taattaatta aagacaaaaa 360
agatgagaaa atccacaata ttgtagaacg aaaattataa gatgggaact gtggaaactt 420
tggttatcag aagctactct tgatgtaatg ttaatgaatt ttctc 465

<210> 7048
<211> 174
<212> DNA
<213> Glycine max

<400> 7048

tgcgcgcctt catgtctgga atatgagagt cgcatatata tctctagaac cttacgtgct 60
ctgctgatgg ctttaattcca ctcccagctt caatacgagt cttggacttt acagactcag 120
tcggacatct gctgagtatg caaacagcac tgtatactgc ttccaccag aatg 174

<210> 7049
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7049

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aactgacca tccccagtgt atgttgcaact aaatgtggca gaagcagaat atcacaacag 120
aactataatg atgctattta tatgcctgaa atattgtatc tcacctgcc acatgacaac 180
accaccagca ttctcgattc tcttcgctc atcacttcta tttggtttat gatcctcaga 240
gagagcattt gctgcaaaaa taaaaaaaat taattcaaga taccaatctt atttccaaaa 300
tgtattcaaa tggaactgta ggagaaaatt tatcatatga ccagacaagg actcttgtct 360
gaaatgctgt atcttcaca tgatctctgt atntacatta tcaagcagct tttccccaac 420
atcacatcat ta 432

<210> 7050
<211> 358

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7050

taacactcat cacggtggaa tccgtagagt ttcgtgagat ttctgaaaga gaacggccaa 60
aaccacaaaa atgaaggggt gaacttatca agataggggt gtaaatagaa attcgaatct 120
aggcccttcc gganacattt ggaagtggg ttgcttaagg aggaagcaac tgggcggcaa 180
gctccttcac gttgttgaaa aatggtttcc ggggctttca tggcttctgt aatgcttccg 240
tanaattccg aaaacctggg taagcatatt tactaaacat tggtgaaagg gaagagaaaa 300
aaaataaaaa tcaaatacaa aacactttcg taaggctttc gtaacttttc cgtaaagt 358

<210> 7051
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7051

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caactgatcg tagttgctca aggaaacaca caaatggcc aattcaacat tctcaaacat 120
ttctagccac ttgcaatttt ctgctagccc tctagcatgt attggaatta gttgatacct 180
gcaatcaatg agaacaaagc atatgacaca gatcagcaac tttttatagc agctctggca 240
atcgatcaa tcatgactac ctataaaatt tctcacatga aacaataggc gcaaatattt 300
tcaccacact aactaaagaa tcatgtagat cggcagtgtc gacagtttcc tcacgagctg 360
gccgaggaaa tgaaaactct accagaagcc atccattgt atgaagtaac tccttcagca 420
tagaggatat ctaaatccga gggttcataa tcagtcctca atatctcaac a 471

<210> 7052
<211> 447
<212> DNA
<213> Glycine max

<400> 7052

tgtagagtct ttcgtcagga ctggggcttg tgccctgttg gtgccatgga gatgatccaa 60
aagtctctac ctgaatctct aagaaagagt gtaaacaagt gtgacctcgc acaatccaac 120

aagagcatat aatggattcc acacaacttt acttttcgat atctcatacc taaggagctt 180
 gtaaaataat tgcttggtag cccttttttc ttactatggg agacaatcta cttcaagttt 240
 taaacaacag ttcacaactt caattgtagc tgcattagtc gtatctgtct gcaattttcc 300
 aatcgagaca aaactgctac tacaattgct actgcagttt ataaccttga tgtgcgttgc 360
 ttgctctatg atgtattatt cttctgtaca aagatgacag ggtagcacca acagagaaat 420
 ctaatatattgc aatgtgtagc attgagt 447

<210> 7053
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7053

gcttccagat tagtgtacca gatgaccgcg gctccagcca agctatcttg gaanaagtgc 60
 atcaacaact tttcatccct agaatgcgcc cacatcttgc gacaatacat cttgagatgg 120
 ttcttatgac aagtcgtccc tttgtacctg tcgaaatcag gtaccttaaa ttttggtatgg 180
 atgacgatgt ccggcactaa tcaaagatcc gccatgtnc aagaacggata gtcgccaagg 240
 ctttcaacat ctctcaatct ctctttgata gatcgagttt actttattct tccgctgcta 300
 ggggtggtcc ttctgtggac aagaatatcg gctatgctgg ga 342

<210> 7054
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7054

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 canagataga aacagaaaaac acaaaacaga ataaccatta atcaagatca atttcattaa 120
 taaataggat catataaaaag atatcaacaa ataaataaat aatcacatat catgatccta 180
 caaaaactta tctccttcct acaccaatct cttgtaatct tctctccatt tgttgtcaag 240
 caaaaaacca aagggaggaa cgaaggggtat agaccaatca tgc 283

<210> 7055
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7055

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 aatatatacc acaaactctt gcaacaggtg tagatgcaga tttctgattc atggccagct 120
 gagttactag gatgaccaag gcatcaagtt ttccctcaag ctttctatct tctgcagaca 180
 atagcatcat ctcttgact gaattgttgg gagatgaaag ccattctctc aatcaaattc 240
 ctagcctcaa caggagtcac atcaccaaga gctccaccac tggcggcac gatcatactc 300
 ctctata 307

<210> 7056
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7056

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 aaaccagcaa actgttaacc gactctaaca gctagtccct gtactgagta aggttgcaaa 120
 ttcacaaaaa ctagtggaat gaagtcatac ttgagacagt gaaagcaaatt ggacatattg 180
 tggccaaatt tatgctacac ctgaacactg aacatacatt ctgncaccac gggctatgga 240
 atgccctgca atgtggccac tacagactct atggaaacct ccacgactac aaaaaggctg 300
 gtagccgaga tttgatgacc ctgagtgaag tgattatgca aaatgtgcat gaggaggata 360
 gtangaggat aatacacccg ctgataagga agattctgaa tgaaatacca at 412

<210> 7057
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7057

agcttattag acttataaca ccataataaa cacattttat ttgctggggtt agaacatgtg 60

tacttaaaat gcaccncac ttacgttntg tctaataa gaacacgcct ctggccaaat 120
tgaactgtgt ctttatgaga aaagtagttc cacacaaaat ccataagaac tcgatgaccc 180
tcattntgtc tttcagtact gtttagcact ctatcaccac tactttcttt atccacagtg 240
tcacgaatcc ggataagaga agaacatggc tttgcatctt ggctacaact agcttgagca 300
acagcacgag acatatatct atccattggg ccatgggtat ttgggtgcttt cctcttcctt 360
gcatcattaa ttctcactag ctcttttgcc cctacacttg aactanggac agatagatag 420
agtgattc 428

<210> 7058
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7058

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atcattgttc cccaaaacct cagtggaaat attctaagca acttcacctt tttcaattga 120
aaatagctat tcaagatgaa tatataataa taataataat aataataatc acattgcatt 180
tttagagtga tcgagaagat aattgttcat taactttttt aatttaacat ttgttaacta 240
tattagatgc aacaatatat atagtagact aatactataa agaatgagat gcatacttgc 300
gcaataaacc aggccgttaa agagaagcaa ctgcaaatca aaaacaaagt gccacgaagc 360
atgttggttn tgtgtgctgc agtancagtt tgagcgtgat gactatggtg accaagataa 420
aactccttcc 430

<210> 7059
<211> 441
<212> DNA
<213> Glycine max

<400> 7059

agcttattct atcccttgag ataatcccaa ttaagtactt gattcatggt tggatttcaa 60
caaggctcgc caaagcgcaa gtcaatttct gaattcatct ataagatgac caatcaaata 120
aatcattaa gtgcgaaaac agataaagaa ttcaagatga aatattgaat tgatagaatt 180
aaaggataac aagggtagtt ttttcttctc ctaggcggaa ggaatcacac tcataataat 240

aatacaacga aacctagagt gtctaaatgg aataatggag gcatctagta ggtggaagtc 300
 taaaatataa ttctaagaac tgctcaggat ttctacacgt tataatgaat gcctaccgtc 360
 ttatttatag aattggagtt gagtgttaatt aatgagataa ttacatgaaa ttacaaacaa 420
 ataatatctc taattatttc a 441

<210> 7060
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7060

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 tatcttgagg ctgaagaata tggccattgg agcatttaatt gtttgcatta aatacacata 120
 cttcttcata ctagaactcg actcttcttg gatatcatgt tgaacacccc agtaggaaat 180
 cgcttccttt tgcgttaaag cagatttgca tagtagagtg cttcttttga tggaaattag 240
 cgaatttgag gacttggact ttatatattc ttcataggat ttgacagatc ctagagaata 300
 tctctgtaaa acaaactctca nacacagtgt attaaattaa gtcttaaata tcattcttta 360
 atgttgtatc ggatcataac ttcagcttgc tatcttctga aacgtcggac acaaattgtgc 420
 aaagcatgtt atgatatcat ataagacaca acttgtaacc t 461

<210> 7061
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 7061

aagatacatt gatcattcgt ttgtgttgaa gctgctttac ctttttgact cagaagacca 60
 aagagagagg gattacctga agactatcct ccaccgtatt tatggaaagt tcatgggtgca 120
 tcggccattc attacaaaag ccatcaacaa tatcttttac aggttcatat ttgagacaga 180
 gaaacacagt gggattgcag agttgcttga aatattgggc agcataatta atgggtcttgc 240
 tttgcctttg aaggaagacc ataagctgtt tcttgcccgt gcgttgatcc cgcttcacaa 300
 gcta 305

<210> 7062
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7062

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 acaaagtact ttcggcacct actatatgtt gacttgacca atgctgttat tggaaatgttg 120
 cggcaatctt tcaacacctt attcacacat tctgataggg ttgttgtcat gtgaccatat 180
 cttcatccag atgtatcgta agccatgctc catttttctt ttgaaatgcg atcaatccat 240
 gttgctatgg ctggactcaa ttgacgaaat ttttctaagt tttgatcaaa cacatgcttg 300
 caaggagtgt accgctgcat caaattgtta ccatcaaaag ttgtaggtag atatgaaact 360
 canatttact taatgtataa aataaacctt aagcaatttc ttgaaacttc tc 412

<210> 7063
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7063

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 cgcaccactc gcgctaagcg ccatcttctt cagcgctaa ctgagttctg ctaagcgcg 120
 gacctgtgcg ctaagtgcta ttctcttttg tctgaataat ttcgagaatt gngctaagtg 180
 agagctcttg ctaagcccaa ttcttctttt gtttggaaata gcactaagcg agacggatgc 240
 gctaagcatg ggccactatt gcatttaagg agcattttat ttgctaagca tgaccttggc 300
 ccactaagcg agagttgcag gaccaatcag agctacagaa ctcgctcagc gcgtatcttc 360
 gcgctaagcc caaaaacttc tctagaattt caaaattttg tattgggctt agcgagtaga 420
 tccgttaagt gcatgaantt tanaactaaa acgtcatgtt gactcg 466

<210> 7064
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 7064

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atttgaataa atatatatga tctaataaga tgaacaaaat taatataaaa tatgttttagt 120
ctgttagatt gtaaaatgaa cacaatttga aagacaaaata agaggaagat acatgttttt 180
gtctaaatat gattggatat ttttctcttt atagcgcttt tctctctgag gtcttttact 240
gagtttcata aaatgttgta ttggaggatg aaatacctac aaagatactg tgacgcttaa 300
ataagattnt ggcctagagt aataaataaa catgttgtac taacctcaag tccacaagca 360
tcgttataat cctcgtatcc gagatattat gcacttatat gcctgggtggc catcacgggt 420
ttatccttgt aaatacaact 440

<210> 7065
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7065

tgatttcggc cagatcaatc cccaagagct ggcattgttt ggtaatgagg ctgatgggtg 60
agaagatttc aaatcctgag aaatatagag atgaggagcc caagctggag tttgaagatc 120
ccactttgta tcattatgct atattctcag ataatgtcat agctgtgtct gtgggtggtga 180
gatctgtggt gaagaatgca gtggaaccat ggaagcatgt tttccatggt gttacaaaaca 240
ggatgaatgt tggggcaatg aacgttttgg ttaagatgag gccattgaa ggggggtgcat 300
ctttagaggt gaaatcgggtg gaagaattca cattcttaaa ttcattcatat gtccccgatct 360
tgaggcaact tgagtcagcc aaaatgaagc agcggtagtt ggagagtcaa gctgataatg 420
ccacanatga tgcanacatg 440

<210> 7066
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7066

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attgaaatat aaaaactgaa attaaaatga ctgaacataa atcataaaat 'aactgaaaat 120
aaactaaaat gttcaagatg cacaaaattta aatgtcctgc tccttttggtt gctcctgtgc 180
atgctcatta aggtccaaca cctaagcggc tagtgaatcc taagggatag gctgctctag 240
ctcaaatgct ggtgcagatg gtatggcatc atcaggtaca ggtgtagaag atggctcatg 300
aatgtggtct gtagaagtct cctcctcctg agccatgtat acacctgcat cacaataaaa 360

<210> 7067
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7067

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tccttttcgg ttntagctac tatcccatc tttcatctac cttgtccttg gtccattac 120
aaccttaaaa gaccttttga tcctcatgtg catgtgcttg cgatgtgggtt gtcaatttta 180
gagtcttgcc aagtctatgt ggtgtttgtt ttcattgggtg ctctgagagt aaatagtagc 240
ctatacactt gagagataga gtgcatactt tgtgaggctc tatcactctt cattcttgag 300
ctgattgact atctcgccat atctgagatg cttggaggat tttcatgacg gccttgatta 360
tttaactntc tacgtgtcgg atgttaccca ttcttttcat tctttgagat tcaactgagaa 420
atatg 425

<210> 7068
<211> 354
<212> DNA
<213> Glycine max

<400> 7068

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acagcacaga agacgatgtt agtctctgcg tgctcctctt ctccgaggct tatagatagc 120
aaaaaggtgt aggaccaaca ggctcccaca tgtcatcggg ccctgagtat tatagatagc 180
agaaatatct caaaagtgcg ggaccacatg gttcccgctg gtcacgggc ccgccgcctt 240
tggatgacaa aaggtgcata agacgacgtt agtctctacg tgctatcatg ctctgagtct 300

tatagatagc caaagtatct taaaagcgcg ggaccacatg gttcccgcat gtca 354

<210> 7069
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7069

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ataaattatt agaggatagt tgcataagtg gagagagaag gtacgagacc acctacacaa 120
tgcataaaca aaaattacat catctctacc ttccataatc cttctatgtg ctaaaaggaa 180
gcaaatagag tgaagtatag ccaaaacatc aatgaagatc caatcaatga gtgttgata 240
gttgtaaaaa tccctcaaac agcttctcct tgtatgtaat atatatgcat cccacattaa 300
ccatgtgggt taagtttggt tatgagagaa gtgattggga gatcccatgg aatatgagt 359

<210> 7070
<211> 212
<212> DNA
<213> Glycine max

<400> 7070
gcttgcttgt ggagcttcta tggaggctga atctatgagc tttaattacg tcattcaatg 60
gcgattttcc accatggaga tgcagcggaa gaccaacgag aagacgtgag aggacgcgcc 120
atccactacg gaataagcca tggaacaacg agcgtcacta ccaagaatgt gccttggata 180
acaagcttga aaacgatgca ttaatggagg aa 212

<210> 7071
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7071

agctngaacc ttgaatcttg attcttgata tcttatttcc tcttgaacct tgaagtgttc 60
ttgattcaat cttgagcatc ttgaactcat tctttgattc ttgagatcat catctttgtt 120
atcatgaagt attcttgatc tttgagcttt ttgtcatcac ctttgttatc atcaaaactt 180

ctttgaatca atcttgattc atcatgaagc ttgcttctac aatgaatgtg gtgagtagtg 240
 caaccctctt ttgaaaatca cccatgcac catcatcttc atgattcaca tacataggga 300
 ctccattacgt aggtttattc ttattctttg tttcaataca aaccaggggt ttcatatggg 360
 acaccttagg tttgtcatac tnttnggtag gagtaatcaa catgaaaata taaaacaaag 420
 gtatatnta ttgcattact ttccttanat tottaagt 458

<210> 7072
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 7072

tgtagacag acggcctcag ttctcttaag aaggggggtg ttgttttacg ataacaagaa 60
 ctctcgcgca attcgcttt cactctctgc tcttacatga acgatgcacc ctcaacatga 120
 attactctaa agacaattct ccatagactg ctttaatgga agagagaact gcacactaga 180
 ttcatgctg 189

<210> 7073
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7073

gcaagcttct acttatgtgg cagggcgggc tttcttctact gtcttgtctc caacgcgagc 60
 tntgaccact gttcttctct cccgcgatgc ttcttttcat gtccgcctga gtgggcttat 120
 agcctaaacc atacttccca cgatttctct gggatattat caggctagtt atgccgccgt 180
 tgtctttgcc taaacccatc ccgggttcat aaccgttccc caacataact cgggccatca 240
 ttactgctgc aacggacaga caagggttgc cagagaggga gtccacggag gaaatgctga 300
 ccacctcaaa agactggaaa gcnngttcta acgattcttc tgcggcttcc acataaggca 360
 tagaggatgg gcagcttacc aagatgtctt cctcgctga cacgat 406

<210> 7074
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 7074

tgggtgatgt tgcgcgtact gatgggtacc atgaggtggt tgttggtggt tgacccatgc 60
gggcgttgaa gagaccgcat gggcatctcc ttccttactt tctgcccctg ttgcccgcgat 120
tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatcccaac 180
ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
cttctcatag taaaacactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttaaagggt 360
ttcaccctct ctcttgaaca tattctgcag ttgagtacgg tccggagcca tatcagaaat 420
gtactgatac tgc 433

<210> 7075

<211> 198

<212> DNA

<213> Glycine max

<400> 7075

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gaaagcctcc gtatttgaga actctggtat attctaacca ttagagaatg cattaaagaa 120
aaatattatg ttttaccogt tgattcaggt gtgtgcgggg cattcacgac actcatgcat 180
acgtgtcact tgtggagt 198

<210> 7076

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7076

gcctgaaact gttcgatcat attgaaacat catagtgtc tacacagtaa tagatattca 60
aatttgacaa tatgtctcaga aaattaatac aacgttcattg ttttcacatc taaaaagtcc 120
tatattcgcc aatgtntgga acttaattag gccctacata taacgaactt ttttccttta 180
aattcctctc gaaataataa ttcattcgcg aaagtactat agattgcgta ccgagacaag 240
caactgaaca ttgaaaactg cccatcacaa ttaaagattt gataaatgta ttgcgcgttt 300

attttataaa cagtcaatat tttaaattat gatatgcact ctcatttaat ctcccatgca 360
 ctgctgatat gtgaagtctc acaattaata acagatgctt gaaa 404

<210> 7077
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7077

ttctcttttg gaaccngaag cgccacgaca tcattcttgag cctcttttgac ttatatcttg 60
 acttctgaaa agatcatact cgtcttcatg caatctcttc gagcctcgag cttattgaac 120
 attccctagt ttttctccaa tattctttta attaacttct aaatgtcatg aagcctgctt 180
 atacattgat gtcgcgcttt tgcagtcttt ttttgacaac accctcgttc cacatctcat 240
 gattcatcct aagaccata cgccgcgcct atatttctgt tcaacaacac tcggtatatg 300
 gaccctacgg tgctaccttg cgcgctacca cctcaactac caaggaattt taccatctcg 360
 ctaattaaag gaaaaggctc cacacctaaa ataaact 397

<210> 7078
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7078

cttagaaatt tcaaaagtga tatcagatgc atccatttct aatatcaa atatagcatg 60
 tacggcggtta ctaattgcag tattgtgagt agtatattaa caaataaatg aatgcatagc 120
 ataaattagt tnttgctgt tccataaatt gtaagatgat acgcaagccc ttcttgcatg 180
 tgtgtgcaaa agaagtagat caattgcatt gtgtattaat atattatagt tggtaatttt 240
 ctttacggtc tctatcatga actaccgga tttgggtggtt gcttaattct aagtagaaat 300
 attctattgt tttaataaat tgagcaatgt gaattaaatt acgacacttg tagaatgtaa 360
 ttattttgaa agaaattcgt cttatttgag tggcatatct gtaataatag aacagatcnt 420
 aatgaaaaa cgta 434

<210> 7079

<211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7079

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agctngttac gcaagacact ctcnttgggg ngaagctcct ccttccatgg tttattccct 60
agtggatgac gcctcctttc acctcttctc ctttatcttc cactgcatct ccatggtgga 120
aatcaactt tgaaggacct cattgaggct caaagatcca gcctccatag aagcttctta 180
agcaagcttc catcagagaa attcacctag aaacacctta tctggaagta cgacctccca 240
tacaccattg tcacggacaa cgacactcaa ttcaaggctc agacttaca agaattcttg 300
gaaggctagg catcaagcac ttagtcacct ctatcgaaca tcatcaaacc tacggacagg 360
cagaggtagc taacanagtc atccttaggg ccttacgtac tagactcaat aagtctaaag 420
gtctatg 427
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<210> 7080
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7080

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actaagctnt aatcaatcta acagggactg gttattcaaa ataagatgat gtggaagggtg 60
gnggatggag agaaagttag attctggaca gataagtga ttaatcaaca ggagtcgcta 120
gcagaaaggt accccaggct gtttattata tcctcacaac agaatcacac cattaggcag 180
atgggaactc aaaatgacac gggctgggaa tggaattttt catggagaag actgcttttt 240
gacaatgaaa ttgatactgc catcagtttc cttacggagg tagaaggaca aaccatacag 300
caacaacaaa ttgacatttg ggagtggata ggagattcat cagggattta cacaactcgt 360
agcgcctaca atctgatatg ggaggaaatt gctggtggcc aaaaggagga ttggagtatg 420
gaactatg 428
```

<210> 7081
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 7081

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tgcgattcta ggcctatgaa cccaagcttt taatttcaat acaaaggagc atgacttacg 120
cctagaaatc taagttttgg ttttgaatgt aaaaggcatg aatattggga catgtttgag 180
aggtttttga tttgaattta aattggctgc ctcatgagga ataccttgca cctaggtagc 240
atggaaaata cctttcaatg gtatgtatat atgtgaatat atatagcatg gaaatgcctt 300
gcaaagtgtg tgaatatatg gcataaatat acctcgcaaa atgtgaatgt atagcaaata 360
atgcatttca nanatctgta tatgtaagat aggtagcgta aaaaatgcct ttccaaatat 420
gtatatt 427

<210> 7082
<211> 461
<212> DNA
<213> Glycine max

<400> 7082

ctctgaatca gcgacgttgc gcttagtgcc accctcgctc ttagcgcgag ttagtggatt 60
tgggcttggt gccagtcacg cgcttagcct ggcaagagac aaatgtctcg cttagcaagc 120
tgatctcgca cttagcgtgc ggcctagatc cttgtgctct tctagattcc cttgtcacgc 180
taagcacgct gaagctatgc ttagccgtgg atgtgcgctg agccacacagg gtccacttag 240
cgcgactact ccttttagca cttcaagatt ttagcctctt ttgacctaaa attgaacaga 300
tttcatcatt aaataaaatg gaaaatatct tagagacagc tataacaatg aaacaagatt 360
tatttaccaa tctctacaaa aataacaata aattggggaa actatacaag ttttgaaaa 420
tgtcttctat acaaacagta gttgtataag atgactaaca c 461

<210> 7083
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7083

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gccaaacttc ttcttctagt gctccattaa ttaggagtnt gattcctgaa aggtgcagac 120
acacctgcag gctaccctg caagccacct gctaatagaa cattgatgac tttgtgtaca 180
ctaggttata gctgaagctg caaatgtcat aaacataatg aatgatgttg tgaccccagc 240
ttttgtggct agatcccatg tcttaattat ttttttttga actgcaaaaa taatttatat 300
taaaagataa agagtaccag gggactata taaacacaca ggagtaaaga tctcctgaaa 360
atgataacaa aaatacaaca acccaacaaa aacagccaca nacccaaatac tacacacca 420
ctctaattaa aagctataga cat 443

<210> 7084

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7084

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caaataagaa aattaaattg aaggaaatta atatattaag attcaacgat aaatactttc 120
aatgcanttt tagtttaatt atttattaga ctcttttaatt tgaaaataat atagttcgat 180
ttaatatgta catgttttgt gccatgtaaa tattaatatt gtgtgatgtc tatatgattc 240
atgagatgtg ataacatggt tcattgagat tataacattg tgattgaaaa taaatataaa 300
tgtttgatta atacttgatg tgatattact tgtgttgatga cttatgaatt ggtgaatata 360
caataattcg actggtgttt actttgagaa aaatgtttat gtgc 404

<210> 7085

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7085

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atttgcaaaa gaacatagac cacagactct tggaacaggt gcagatgcaa atttcttatt 120
catggcaagc tgagttacta gggtgaccaa ggcatacaagt tttgcttcag gctttttatt 180
ttcagcagat gaagatgaat ccgtggccac ctcattggact cctctaagga caatagcatc 240

atttctcgca ctgaattggt aggagttgga agccattttc tcaatcaaatt tcctagcctt 300
 aatagaagtc atattaccaa gagctccacc actggcagca tcaacaatac ttctctccat 360
 gttgttaagt cctcataga aatactgcag aaggagtngc tcagaaatct ggtggtgatg 420
 acagcttaca cacaatttct tgaatctttt ccagtactca tac 463

<210> 7086
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7086

tccttgngaa gctagagctt agctacacac acccatctaa natctaagct cacctccttg 60
 acaaaatata tgaaaatata aaaaaaacgt ccctactaca aagactactc aaaatgccct 120
 aaaatacaag gctaaaatcc tatactaata gaatggccaa aatacaaggc ccaaagaag 180
 gaaaaatcta ttataatatt ttcaaagaag agaggaccca accttgggtcc atgggctcag 240
 aaatctaccc ttggattcat gagaacccc aggccttctt tagcagctct agcccaatcc 300
 tcttgagtc ttctatccaa tacccttgcg gngtaggatt gcatcatcct tgctcttcca 360
 ttgaactcga cgaggtggac ggctcgaact tctccattg ctctctctgt ctctgagttt 420
 gggagggtga actcaccana naanaaagat attttaatac act 463

<210> 7087
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7087

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 tagcatcatt tctggtgcta aactggtggg agttggaagc catcttctca attaaatttt 120
 tggcttcagt aggagtcatg tctctaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt actgagtcct tcataaaaat attggagaag aagctgctcc gaaatctgat 240
 ggtgagggca actggcacat agttttttta atctctccca gtattcgtat aggcctctctc 300
 cactgagttg tctaatactt gagatattct tctgatggt cgtgggtccag gaagcaggan 360

attnttttttc taagaataact ttcttaaggt catcccagct cgtgatggac cttggagcaa 420
 ggtaatacag ccagtccttt gccactctct ctaaagaat 459

<210> 7088
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7088

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 attggatgag agtctgttat gagtagaggt aggggagaaa gattaagcta cttgatttcg 120
 aggaccaaga cctcttcaca agctaagtat caaaattctt ctctgcctta ttcattgatt 180
 ggtattgctt ttatacacia ctatggaagt gcatatgtaa cagaatccta acaatcttta 240
 acagaatgat aatcgcttct aacaacctga atattgntat aactattatt tgaactccta 300
 tggcagattc ctatgacaga gcactcgtgt gatcaaacga aatccctcaa gtgactangc 360
 cttgtactga tcttcttggg cctactgctg catcttcttc ctatcanagt catg 414

<210> 7089
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7089

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 agctaaaaca gttccaaatt attgtatgag catttatcat tttccaaaat ctttagctaa 120
 tgaacttcat aagatgatga gctccttttg ttggggtgcc aaaaggagtg gtcatagagg 180
 gattcactgg atggattggc acaagctggg cagttcacaa ggaacatggc ggaataggtt 240
 ttaaagacat atatggattt aacctcgctt tacaagggaa acaagggtgg aatctattga 300
 aaaaccaaac tgctttgggt tcaaagattt tcaaagctag atattatcct aaagcggatt 360
 tcttgggtggc cattgagcat aaataatcct tcatactctt ggagaagcat atgcaattct 420
 tgggttctat taagggaaga ctatagatgg aaagttggaa atgggtcatc aatc 474

<210> 7090

<211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7090

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cttcctttgc caaaaagaat tcgtcaagga ctaaccgcct gaattctttt tgtatctctc 120
ttctaccttt tccaaaagaa cgaaggatta actgcctaaa ttcttttgtg tctcccttct 180
cccttggtcaa agaattcaaa acgacaatct aagaattctt ttgattcttc cctttcccat 240
aaacaaaagt tttaaagga ctaaccgcct gagaattctt ttgtttccc attcacaaag 300
tttaaagga ctaatcgct gagaactttg tcttaacaca ttggagggtg tatcctttgt 360
ggtacaagta gatgatacat ctacttggtt tattgtgact gagaacaaga gagggtagat 420
ctcttggtga ttcagtctag t 441
```

<210> 7091
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7091

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ttaagtcacc tgcggcatgc aagcttctta tacaaggctc atcttggtgg tgaatctgct 60
tcttacatgg cttattccct agtggatggc gccacctctt acctcttctt ctttgtcttc 120
cgctgcatct ccatggtgga aaatcaccat taaaggacct cattaaagct caaagatcca 180
gcctccatag aagctccaca agcaagctct catcaagtgg tatcagagca taagagcttc 240
aagtaggtgc tccttaaacc tccattaatt atttgcttta ccttctcttt cattgttgct 300
tcttcattct tctccatgta tctactcaca tgtcttggtc taaatgttgt taacatgatt 360
ctttagagtt tccnccgatt aaacttgcta t 391
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<210> 7092
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7092

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gctaacgtag aaaggatcag tgagtcaata cctgtcagag tttgaagacc tgcggaatcg 120
aattatcggg ctgccatctc ctttctcct aagttgcttc atctccggcc ttacttcgga 180
gattcgcagg gaggtccaag ccaaccaacc tctcactttg gttcaggccg cgggcctcgc 240
aaaactccag gaagaaaagc tcaccgatag ccggaaccct ccgcgagcta gagcgccacc 300
actagctcta aatctcattc gcgccaacaa cccaactgct gacgtttgcg cccttgttcc 360
gccgttacta ccagctccgc ctgcgccacc acaacctgtg atgaagcgtc tcaccccgga 420
ggagataacc tcacgccaag aacat 445

<210> 7093
<211> 355
<212> DNA
<213> Glycine max

<400> 7093

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acgcctacac aggcaaaccg aatatgatgg cagaaacgct cggaaatacc atgactttaa 120
gggggtgttc gattactgaa gagagaatcg aaatacgaag accattatgt gagcttcatg 180
tggatgtcaa acattctata ttcaactctc attcacaaaa ttatttctta ttattctttt 240
atcctttaca tcaaacctgc cttaactgtt cgaagatctt tttttcttta aatgagcacg 300
accgtgaaat taaacgtcca attattaaaa ggaaactgat ataattagca cagac 355

<210> 7094
<211> 417
<212> DNA
<213> Glycine max

<400> 7094

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aatctgcacc tgtcgccaga ctatgtgggt tatgctctc tgtcgaccac cacacagacc 120
tttgcccttc tgtgcaacaa tctgaagaaa ttgaatagcc tgaagcttat gctgcagaca 180
tccacaacag acctcctcaa cctcaacagc aaaatcagcc acaacagaat aattatgacc 240
tctccaacaa caggtacaat cccggatgga ggaatcatcc caaccttaga tgggtogaatc 300

cttcacaaca gcaacagcaa caacaacaga cttatTTTTca aaatgctgct ggcccaagca 360
gaccatacgt tgctccacca atccagcagc aacagcaaca acagccccag aaataac 417

<210> 7095
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7095

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tgaattcctt gcggcactgt aagcgctaag tgagtcctta tcagctaagc gcatacttct 120
ctatactcaa gatgcatcat tttagctaag ctggcccaga acccggtta gcaacagttg 180
catcttttct aatctgcaga cctcgctaag cggacttata cgcacgctaa gtcaagcctg 240
tgtgctaaaa aaaaaacttg aatttcaaag ttaggctaag cgcacggtgc cgcanagcga 300
gcatcttcga aaaaccaaac gtcacttcga gaaagcaaaa tggcttatgt gagtgtaacg 360
gcaactactc tcacatttgt tggaaactga tgtattgcct gcatcttctc tcttgactc 420
attctccttc attntgcct tcttctgcat canagcatca acaatacaag taa 473

<210> 7096
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7096

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aactttgggt ttcctatgta tttcatctca aattatttct tcaatcaatc tatagctttt 120
ggaagctctt caaaagttcc aataatatat acgtcatcta cataagcaat gattatgaaa 180
atatatTTTT agattttcct gaaaaatgac aaataagatc attttaatat ccttccttta 240
acaagtactc actaagtcta ttatacaaca tgcgacttga tggctttagt ccatacaaag 300
tattcttctt gagaatatgc attattggac aaactatttc cttaaggag ttntatgcan 360
atgccattat aaatagagtt atataagtaa gatgtaacaa tatccattat 410

<210> 7097
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 7097

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 tcacccataga gatctgggta gaatattgca ttacgaagaa cagagaattc atcagctcat 120
 gggttcattga gacaggagaa atcaccattg gtgttaaagt attgtgtatg ctagtcatct 180
 catctgtgct attgtacagc ttgttttagct aaagttatct actgttgtaa agctttcagt 240
 gcaagctagc tctagcctct agtatataaa ctgattactg atctgatcta tcagattgta 300
 aaggctctcag tgccagctta ctatgattta agcttataac agatatacct tttaaataata 360
 atatgggtca caccacacat ggatgaaatg at 392

<210> 7098
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 7098

agcttctttg gagaaacttc cttgagaagc tatagcttag gtgcacacac ccctctcata 60
 actaagcgca cctccttgag aagcttgctt aagaagattc ctaaagatgc ttgagcttag 120
 ctacacatac ctctctaata gctaagctca cctccttgag aggagaagcc agagcttagc 180
 tacgcacgcc ctataataac taagctcacc cctatgacaa agaacatgaa aatacaaaaa 240
 aaagtgccta ctacatagac tactcacaat gccccgaaat acaaggctca aaccctatac 300
 tactagaatg gccaaaatac aacgcctacg aaggagatac ctattctaata atttacaag 360
 ataagcgggc tcatacttag 380

<210> 7099
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7099

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catgtgtaac acttggtgta actttgatga atgagagtct tgtgagacat attcaaagtt 120
ccacttctct cccctcttta ttccttcaat ttcggtgctcc cccctctctc tttctcttcc 180
tctttctttt cctccattga agcatccttc caagcttctt atccaaggct catcttgggtg 240
gtgaagctcc ttcttccatg gcttactccc tagtggatgg cgcctcctct cacctcttct 300
cctttgtctt ctgctgcac tccatgatgg aaaatcacta ttaaaggacc tcattgaagc 360
tcatagatcc agcctccata ngaagcccac aagcaagctt ccatcatata catattattn 420
tctattactt tnttttaat 439

<210> 7100
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7100

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gcgactgggtc cctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctct ttttcaaggg 180
ctcttgcggt aattgcattc tcttcccgtc acccggcgca ctccctccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaacttg 360
cgagccaatc t 371

<210> 7101
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7101

nttcgcanag cttacggtaa aatctgggac ctagccatgg tataagtctc catagaggtc 60
attgcctccc tcgccagta ttatgatcag tcgttgaggt gcttcacctt tggggacttc 120
cagctatcac ctatggtaga agaatttgaa gaaatcctag gatgtcctct agggggaagg 180
aaaccatacc tcttctcagg gttatatccc tcattagcta gaatttcaa gatagtccaa 240

atctcggcac aggaattaga ccacagaaag caagtcgaaa atgaggtggt tggaaattccg 300
 agaaaatatt tggaggcaaa agcaagaatc tatgcaggta aagacgagtg ggccccgttc 360
 atagatattc tcacactggt ga 382

<210> 7102
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7102

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 aagattacta gtataggtaa aatccgtggt cctttcttag cctccataga caacgtctta 120
 tatgttgaag gtttgaagta taacttattg agcaaagtta agtttgcgac aatgggtata 180
 ttgtgtcctt caacaaagac caatgtatag tcaagataca agatgacaag tncttattta 240
 ctactaaatg acacaacaat ctgtatgaga ttgatctgat aggtctaagt aaacaaaata 300
 taatgtgtct gctttgtaga gaatatgaga gatggatttg gcacaaaata tttgggcatg 360
 tgaatctgan acatatctca caactttctt aaaaaggaat tagtgaacag acttcctaag 420
 atttgttgaa actctcatct tctctgtgaa gcatgtc 457

<210> 7103
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7103

ngtcagaggt tgaagaagaa gttggtagaa caattgagca aaatagatta gaatatgttg 60
 ataatcattt atcaatataa ggagaagggtg aacctggctg ctagtcatgg gcagatgttg 120
 gaagatgaat aggcaaagggt attggctctg caaattgaaa ggggaagcgag agagagagag 180
 ggtgatggag ttattgcatg gggaagccat gaaatggatg aatagattcg ctctcactct 240
 gaatgagagt caagagtttc caaggttggt agccagagcc tatgcagtgg ctgacacgca 300
 ctcagctccc gacgaagtcc atgggtcttt cgattactgc caacacatgg tcgaactaat 360
 gaccacata attaggagtc actaaggcat ttgtgttgta tttatgctnt gactctaaca 420

agatgtgatg aaacatgttg ttttaatgaa atanggattg atttgaccct atgttctat 479

<210> 7104
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7104

cctataaaac taagctttta tccaggctca tcttggtggt gaagctactt cttccatggc 60
ttattctcta gtggatggcg cctnctctcg cctcttctcc tttgtcttcc gctgcatcta 120
catggtggaa aaccaccatt aaaggacctc attgaagctc agagatccag cctccataga 180
agctccacaa gcaagcttcc atcatatacc atgcaagaaa aacaaaatga cataattaaa 240
actgagttgc ctcccagaaa gcgcttcttt aatgtcatta gcttgacgct tttacctcaa 300
tgggtgaata tccatttgtc ctttaacttc aggacctcct taccacctg catcacttgc 360
aagcagacat tttgatatga cataggctng tcttcttcac atagatcana attgatcttc 420
tgatcttcaa aacctatctt caatgtctat cttcccatgt caactacaca gc 472

<210> 7105
<211> 470
<212> DNA
<213> Glycine max

<400> 7105

agctggcttc tacagttacg atgtttccta cgatgacagt tgtaaaccga tgtagtatgc 60
cccagataac cgatgtagaa tcttgettct ctagtagtga taaatttttt atcttagctt 120
ccatcttatt atcaagtgtg tattgttact aaaaaattaa atataaaata tgaaaattta 180
aaaatcttgc gtttggtgtg ggaactttca acctttggcg atcttggtga tatcgcaact 240
catgattacg atcttaatga tatcgtaact cgtgactata agtgcatttc cataatttag 300
aaattataat attcttcaat cattcaaag acacttggtt atatgatttt tgaaaataag 360
agatcctttc aattggaaaa caaatagagt ttaataatta gaatatttat ttttattgga 420
aattagcaat tagatattaa caaagaagaa aacacttatt atataataac 470

<210> 7106
<211> 438

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7106

nntgaaagac ttattagttc ttttcggtct tgctttggtc attgggtttc attcattaca 60
taagatattt gaagtttagtg gacctttgct ggatcatatc actttcattt cgatttagtc 120
ctatagtttt attttatttt agttcttatt gacaagtaat agtggttaact aataatgcta 180
cagtcattga caatttattg aattgtcaca tctcaagagt cagacaaggt agtcgtgtgt 240
aattnttttt tttgtaatct atacactntt aaattttcat ttattcaaaa tagtggatga 300
cgttaaacta gctaggggaat tttttattag tcgatgttag ttgttagttt ttttgtagt 360
agaaggattc gaaccaacaa catcttcgtc atttctttct ctcttcacca ctaaaccaac 420
tttatgacgt ccaattag 438

<210> 7107
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7107

acagaataat ccgaaaatgt cagagaattg ngtgttgaat tagcataaca agactttctg 60
tgattggttt aaagatacaa tctttgcaga tgagaatgct taagaaacat taagatagct 120
atcagatggg cctaaaagaa atgttataac ctggcaaaga tacgacataa acaggtattc 180
attttacaca aaagcacaag atgacaaaag tacgatgcag aacagtgggg ttaccctaag 240
ggctgaatct caacactttg caagtgtcaa tgacgccaat ccttgtgtag cttccatccc 300
ttactatggg ttcatagatg aaatttgaga gcttaactat gtgaaattac gtgatgt 357

<210> 7108
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7108

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gttgccatgt ttttgatgag gacatgacca agagcaaggg caaggatcca cttgaaggac 120
 ttggaggacc tatgacaagg gctagagcaa ggaaagccaa ggaagctctt caacaagtgc 180
 tgtccatact atntgaatac aagcccaagt ttcaaggaga aaagtccaag gttgtgagtt 240
 gtatcatggc ccanatggag gaggactaaa tgacaccact ntgtctcaat ttttagagtg 300
 tttagtgttg ctaaataatg gcccaatcct tgtaaagttg gctgaccaaa aata 354

<210> 7109
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 7109

tatgaccatt cgaatatctc aagagcttcc gctgggtctat gtctagcgtg tagatgaggt 60
 atgtccccga ctctgacatg agcgtgaaaa gatgtgacca ttctattgtg tcgagagctt 120
 atgatgttca gtttagaacg tctcgatata ttatgagacg cgcctctgac gtgaagtgag 180
 acaatccctg atctcttgga tattttccag agcttccgga gattactttc aagcgtatag 240
 atgagctatg gacacgaacc gcacattcca gtgaaaactt gtgacgggtc gaatttctcg 300
 agagctttcg gtggccaatt 320

<210> 7110
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 7110

tgttcacatg tgttagcaag gtatgccact cttgaactga ctgctggtaa ttctctgccc 60
 tcttttctctt tcttactatg gaaagcctgc cttacaggcg gcttcttaac acactcttaa 120
 ccatgcaaca ccattactg gttgacaaag atgatacata ttttaataagc ataattgagca 180
 tcctatccta tataactgga tattaataat tacctaactc ctctgccgtc attattccaa 240
 acccaatgtt agaaaataaa atctcggaga ctttctcaga ttatgatata cagcagcagc 300
 attattaaaa ttgttaccat ctctatacat ggcatgtatt cccgtacgat atacaaaaaa 360
 gatattgata acacatggta tatgctagta acgtcccgtt agtggttaaca gagactctag 420
 tcactagaga acatcttgga gaacacatta acacagagaa ctccatt 467

<210> 7111
 <211> 475
 <212> DNA
 <213> Glycine max

<400> 7111

actaagctta caagggaaga taacacctca ttcataatttg gtcgatgttc aagatctggg 60
 aggggtgcagc acaatgataa cttaatgagc tctggcaaca cttcgtcatg gtcaacatcc 120
 caggtaaaca aagggtctac aatattggca agttgtttta ttccattttt aagggtttt 180
 gtcactactt cacgcaaagt gattggcaaa ccatcctctt tttagagtcc tgcggcctt 240
 ctttttggtta gaaactccat tactatgaca ccgaagctga acacatctgc tttagtgggt 300
 actttcctca tgtaggcaaa ttctgaaaat tacacagcat aaatatcttg tttagagagt 360
 gaaacttata aaaactctcg ggtatacaat gttaataaga taagaggatt cgaaacatag 420
 tgacaaaata agacgttgtg taattgtgcc agtcttggtc atgctacctt ctctg 475

<210> 7112
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 7112

agttttgaat tgcaaaacgt agcagttggg ctaagcacat ctccaccgct aagcgtagtt 60
 tcagcgcgct tagcgcaacg gagaatctag cagagcatta tcatcaaagc cgcacgctta 120
 gcgcgagatc agtgcgctaa gcgcagaagg ttccttcagc tatgctaagg tcgagactgg 180
 tgctaagccc aatttcactt actcgcgcta atctcgaggg tggcactcag cgcaacatcg 240
 cgatttcaag cctattaaag tct 263

<210> 7113
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7113

gggagatgat gcttcaatgg agganaagaa agaggagag atttagagag tgaggagcac 60
 gaaattgaag gaagaaaaac ggagagaagt tgaactttga gttgtgtttc acaagactct 120

catccatcaa agttacaaca agtggttacac atgtttctat ttatagacta ggtagcttcc 180
 ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
 agctagagct tagctacaca caccctctta ataactaagc tcacctcctt gagaagctct 300
 cttcagaaga ttcttaaaga agctagagct tagctacaca cacctctcta atagctaagc 360
 tcaccttctt gagatgagaa gctagagctt agctacacan cccctataat atctaagctt 420
 caccatgac aaaatacatg aaaatacaaa aaagtcctta ctacaaagac tactc 475

<210> 7114
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7114

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 tctcttatac attaattggt ttatatgaac tgggagaatg attatataat tagaaaaaca 120
 ttgtaggagt aaattttcta tgagacattt aaaactaaca tgaaagatga acatagaaag 180
 cctgaccatt gtgtcaatta atgtcattgg tatattgcaa tatgacttat aataaatgaa 240
 tatatgctta taattganat atga 264

<210> 7115
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7115

ntgtaataca ccaaattctt ttctttgttt atttgcggcc acttgaatta tttatttcaa 60
 tttctatcct tatacccata gtaagtattg acatttatcc atattttatt tttccattat 120
 cagctgacaa ggttgaagct attctatcta attttttata gataattttc acacatcaat 180
 gaaaactcac ataaaaataa ataaaaccca tgcacaatac aaaaccttat atttcttttg 240
 tattatatta attatataaa aataaatttg aattataatt gaatatgttt gctgttttga 300
 gaaccccttg aatcactatt aagatacttg attgaaaagt ttaaataat caataaatat 360
 atgttttaac atatagtatg acacacattt attatctctc tatacatata taatatatta 420

cattagaatg gataaatgca tatgtatata tatatatat

459

<210> 7116

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7116

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gacctcgttg tcaagcctgg taatcgatta caccocgtgg tgatcgatta ccagagacca 120
tcttagcctc ctgtcttcat ctttaggcct tgtaatcgat taccaccctc tggtaatcga 180
ttaccagagg ccataacca tatatcacac aagattcaca gctggccagc caccacacaa 240
gcctccttgc tttgtggtcc ttgctccttc tatctgtaga ctgccangag ctgcctgct 300
taggtacatc acaggttctc actgactgac tatgcccggg ttgggtcggg attggtcaag 360
cttggttttg ggcaatagca ccctacctga cgtacacagg tctcctgacc cccgcgacat 420
atctacaggt acc 433

<210> 7117

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7117

cgtcactcan aacaactcat tgtgcatgaa cctattgaat ctagctntca acattgaaat 60
aaagatataa caattgaaat tgtaacatct cttttctta aaactaattt taagaaaatg 120
ttatttataa ataaatagag ttttagaaaa atgatgagat ttttgtaatt aaatgaataa 180
gaagaaataa ttgtattaaa ataatggttt gagagaaaat aaaaaggata catttgatag 240
gaaataaaat agagtgtttg tttataaagt aataaaaaaa tagagtagac aatagactaa 300
gagtatctaa ctatgaatag agacatgcta ggtcatttnt aactntctct ccctctcagt 360
ttgcgtntct ttctcctcct ctaaacctnt ctattccgca tccaccaatt tatcccagaa 420
aatgtgatct cgactcattc atcgtggatc gcataatatt aaca 464

<210> 7118
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7118

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 taaggcatac aactccttat cataagttga atagttaagg gtaggaccac ttaacttttc 120
 actgaaataa gcaattggat ggccttcttg caacaacaca gcccgaatcc caacatttaa 180
 agcatcacac tcgatttcaa aagatttttg aaagtttgca acgcaagtat gngggcatta 240
 gttagctttt gcttaagaat attgaaatct tcttcttggt tctctcccca ttagaaacca 300
 acatttttct tgggcacttc attgagaggt gctgtcaatg tgctaaaatc attcaciaat 360
 cgtctat 367

<210> 7119
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7119

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 gcagaggagc acaaaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120
 tgggttacca agatgaccaa cgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180
 gcagatgggt ttgtagctac ctcatgcact cctctaataga ctatggcatc atttctggcg 240
 ctaaactgct gggagttaga ggccatcttc tcaattaaat ttctggcttc agcaggagtc 300
 atgtatncaa gggctccacc actggcagca tctatcatatc ttctctccat attactgagt 360
 acttcataaa aatattggag aagaagctgt tctatgatct gatgggtgggg gcaactggca 420
 cat 423

<210> 7120
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 7120

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tttntatttg gaaaagaaaa actatcatct tctccttgga tgacatagtt ntctcatgca 120
atttgagtta atgattagtc tcggtccctt gtgtgctgct aactatgaaa tgtgaatgga 180
taagcttgag atgttcacat atccctttca agatctttgg atttgagat aatttttcct 240
tggtttgggt tgtttattct acatcttttc tcacggaagc ctttcgggaa atctatatct 300
ttaaacatgc tctttccttg ttggttgaaa tttattagaa tttaccacaa tttgagtgcc 360
accccatgtt tattaagtga ttgggaattg ggttt 395

<210> 7121

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7121

tatcctgcta ctggtggaca aaacttanag acattttttt atattctatt cgtatatacc 60
tatgctcgat atgcgatcat tctaacttat gtgctcagat agaacaaaag taacataggg 120
gtacttctct gaatgtagat cgaaagtgcc tccaccacat tcccaaacat gcattatatt 180
attctttaat ataacataaa tgttaccgca caccatttgc acacaaatat tccgcattaa 240
atatcaagtt aagttattga agagaactct agttctcatt agagaccaac gccacaaaca 300
ctccaaagga tttgcatata agactatttt ttattctgta 340

<210> 7122

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7122

agctngttng aaacanaata naaaccactg ttacaccac cttgttttac acatggaact 60
ctcttgtttt gggcctagcc caattntggt aagtcacaaa ataaaaacca ttatttaaac 120
accctcttt tacacatgca ccttatctcg ttgtaggcct agcccttttt acacatgcac 180
catcttccat tataggcctt acccttttgg gcctagccca tttttgtaa gtctgaaata 240

aataaatatt gctagtcaag ttccctcaat tacacatata cctgctttcc tttgggccta 300
 gcccatTTTT gttaattntg aaataaaata aaaaattcta tttacacctt ttcttttgta 360
 ttttatacat gcacnctctt tcattgtggg cctagcccat ttttctttgt ctgaaataaa 420
 ataaatacta ctaactaca 439

<210> 7123
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7123

ctaagcttcn tagtctctaa agcaggttgt ggtccccgat acaacattta ggaataatga 60
 gaactctaac aggttaaaac ctaaagcaag gttgtgggtcc tcgatacacc aaatcagaaa 120
 ttgtattctt ttctctccat ctggcgagaa acctaaggta ctaaaaggaa aatgatgatt 180
 tggttgagga agaatacaaa accaacagtt cctcagactc atcaattccg ttgtttatca 240
 tggatccaag tattcttcac aaccctctt gataatctaa cttaatgtgt ttccgatgat 300
 tattgggtatt ttattaagat ccctagaata tcatataatt ggtatcagag ccaccattac 360
 tgttagatta tcgggaatta aagatatntg cgttgcgtta tacctgtatt atctcgttac 420
 atgaaccctt attntattttt gggattttat ctt 453

<210> 7124
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 7124

gcttaagctc cttcaactgc acaaggctct taatatttta agagtatcct tgtggaacct 60
 tgacccgacg aagacactga cagaaactta tcttctcctt cttggacaaa gtatgagatg 120
 ctgggggcaa gtaaattctc ttcccatcag accttggatg cgactgtgat cttataccta 180
 tatcagctag atcttgacgg gtattcaagc catccttcgt cttgccgtga atgttaagga 240
 gcgteccaat cacactgtca caaacattgt tctccacatg cataacatca atacaatgtc 300
 taacgtctag atcacaccag tacggaagat caacgaaaat ggacctcttc ttccatatgc 360
 aactctgac 369

<210> 7125
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7125

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ntctccctat gttgctataa ataggggaag aagtgaagaa gattaggggt cagcccctta 60
ggcacttctc tctctttcga atttgctgag gaaaattatt tccgtgaaga aaatccaagc 120
cgaggcgctt tcgtaacgtt tccgtaacat ttccgtgagt aattacgcga agattctcga 180
ccgttcttca agatccatcg ttctttcttc gttntcttca gtcttcaacg ggtaagtacc 240
tcaaaccaag cttttcaatt cattatatgt acccgtggtg gtccacattg tgtttcatgt 300
atttttattc tcgatttcgt ttacttttta taccactttt tgacgtgctt aagccattta 360
tttaagtcgt ttctcgcta atctaaaaat aaaataaatt tccaccgatc ggttgaattg 420
tgtcatccat taattttggt taaatgaat tccgaccatt cggtcgtg 468
```

<210> 7126
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7126

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agcttagccc cagaggggat ggacctcttc atgttttgga gaggatcaat aacaatgcct 60
atagggttga cctcccagaa gagtatagag tcaacatcac ttttaacatt nttgatttaa 120
ttccttttgc acgttgagct gatattgagg aggaggaact aacatattta aggtcaaadc 180
ctcttcaagg ggaaggggat gatgcaatcc tccctatgaa gggaccggcc acaagatcta 240
tgagcaagag gctccaagag gatt 264
```

<210> 7127
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 7127

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tctatataag ctgaaccagt ttatcaataa acacaagttg agttgtattc agatcattag 60
```

agtttatctc ttttatctta gtgaaagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgcc ggaaagagtg 180
attctttgct tcccttcac ttcgaccttg ttctttcaaa ccacaattca aaaaaaatcc 240
acttctgtct agaattatct tgtggccata actcccat ttcgacctca aattaagtga 300
ttcttgagcc taaattgaat ttcaaacga gacctttcac cttgttttgg aatcacctca 360
tttgagccc tgtagctcga gttattgtca ttctatatc tctgtccagc caccacttaa 420
ccgacgattt accatcgcat tcat 444

<210> 7128
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7128

agcttctaca ttcaatttcg agctnttcga tatattactg gactcaatcg gacatccgag 60
taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatcaga gtaaaaagt attgttggtt gaatttgctc 180
agagcttcgg tattccattt cgagcatctc gatatttac gggactcaat cagacatccg 240
agtaaaaagt tattgtagtt tgaatttgct cagggcttct gtattccatt tcgagcgtct 300
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360
tcagagcttc tacattcaat ttcgagctgt tcgatattt acgggactca atcagacatc 420
cgagtaaaaa gttattgtcg tctgaatttg tcagagcttc atattccatt tcagcgtttg 480
attata 486

<210> 7129
<211> 323
<212> DNA
<213> Glycine max

<400> 7129

ctgacaagat tcaaacgaca ataactactt actcggatgt ctgtttgagt cccgcaatat 60
gtcgaatcgc tcgatgttga atcccgaagc gctgatcaga ctcaaacgac aataactttt 120

tactcggatg tgtgactgag tcccgtctta tatagtagag ctcgaaactg aatgatcgag 180
 ctctaagcaa attcgggcga caagaacttt ttactgagat gtctgattga gtgccgtaat 240
 atatcttaac agctcaaagg gagtgtcgaa gctctgagca cattctggct acactaacta 300
 tatactcgga tgtgtgattg agt 323

<210> 7130
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7130

agcttgcttc tacaatatcc ncttttggat gatgacatct tctgaaatca agaagcacac 60
 acacactttt tcctagtcga tcaatcatat aaattctcct cctttgtttt tgaatttatg 120
 tttatcttaa aaataagttg attactcatg tgaattcttg atttaatccc atttctctcc 180
 ccctttggca tcaacaaaaa gccaaagtgc gtatcaaact taagggtatac aaatataact 240
 taaacatcta tacttaatat tcatgaaaaa aatatcaacc aaatcatgaa gcaagaagca 300
 agaaccatga aaaccatgaa gcaacaacca tgaatagatt aattttaaac tccacatagt 360
 caaataacat acttaatat ggtccaaaca taccatgcaa ataaggaaat agtatattgt 420
 tcaaatatca taataataat agagaaatta tttgataagt cactaacatc tattagtctc 480
 aact 484

<210> 7131
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 7131

ggaccccggt tgaagagaca accactttct agcttgtgcc tatggaatgt catgttactc 60
 aattggggaa tcaactaccc aaggatgaca gcacttgaat acaagtcac cgagaacatg 120
 tcaacttatt ttgctagtcc ataatagaca tgcccgggtat cacccaagct tccattgtct 180
 taagttggcc atatgtgaag atgcctagcc cattgcctag aggaagagaa agatggatga 240
 aaggaggtgt cgagcagtgc ggcaagaagt ggccaagttg atggttgcca ggtttaataa 300
 gccaaacgag aagtggagga tgtgcaacaa ctagactgat ttgaatcgag cgtgccccaa 360

ggacgcacat ccacacttga acatcgacca actggtcgat gaagtggccg gacacagagt 420
gttaagttct ctggatggtt attctaacta tgatcacgat a 461

<210> 7132
<211> 286
<212> DNA
<213> Glycine max

<400> 7132

agcttcggaa gaaagtgatg aggtacaagc cctataggca gagcttgaaa gagcccggt 60
agtcgaagag aagttcaagt ccatagccat caaagtctaa aaagagtatg atgaactaag 120
ggacgtcaat atggccacag ttgaagcctt ggaacgagaa accaagaagg cccgaaagga 180
agaacacgac caaagcaaag ttttgagggg ctctataggg cagcaatagt gagctcaagc 240
tccgaagagg tgaaaggaat catcacgggt caaaggcatg atcttg 286

<210> 7133
<211> 417
<212> DNA
<213> Glycine max

<400> 7133

tcaggctgct caattgctcc aggttgctgc atggaatgct aaatgtctgt atggtggtca 60
gcagaggagc acaaaccaca aacccttgca acaggtacag atttttgatt caaggccagt 120
tgggttacca agttaaccaa tgcattcagt ttgccttcaa gtttcttagt ctcatgat 180
gcagctgagt ttgtagctac ctcatgcact cctctaata ga ctatggcatc atttctggcg 240
ctaaactgct gagagttgga agccatcttc tcaattaaat ttctagcttc agcaggagtc 300
atgtctccaa gggctccacc actggcagca tctatcatatc ttctctccat attactgagt 360
ccttcataaa aatattggag aagaagctgc tctgaaatct gatggtgagg gcaactg 417

<210> 7134
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7134

agcttgctca tatccaataa cacaactgaa accatttacc accatcatct tctcgaggac 60
 ttagatatac aatgaattgg attatattatc caataagtag ataaaggata gatattcctt 120
 tttcgaaacc gtagccggcc gcttccatga taagtatgtc ctcaaagata tatgaatata 180
 gcactgaagt ttgttaattt gataagtaat tttgctaact aaggctctgaa atgaataaat 240
 gacattttca ttcaccaaca aaatgatatt taagaatata tattagtaaa tttatatata 300
 tacttatata agtatttaca aatacatatt atatatatgc ttaaatatat attttttcat 360
 acctganaaa taggtcattt tcagatttac aatcttaaat tacttacagt caattacgta 420
 tctgaaaaaa aattatgttt caac 444

<210> 7135
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7135

cggagaggat gctntaatgg agganaagaa agagggagag aattagggag gggggagcac 60
 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120
 cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
 ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
 agctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300
 cttagaaga ttcctaaaga agctagagct tagctacata tacctctcta atagctaagc 360
 tcacctcctt gagatgagaa gctagaactt agctacacac ccgtataat agctaagctc 420
 actcccatg 429

<210> 7136
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7136

ctattatcat atgcaataga tgccacatgt ctacatatga gaggagcaaa aagggccac 60
 ttttcctttt gactgtgacc cataactcaac caccaaagtg gggaaaatct gacctttgaa 120

acgctaaaat ccagcctcgg tttgtgtgcc gtttctttgg tatcagttcc tcgcgtttct 180
ctgcgtccgt cggggccagt tttcgaaagc cagcaatata tatatcaaaa cgctcagaat 240
agaaccccga gcgtgggttca gaggttgggt tcattaaatt ttaagtcgca cgcaaaacga 300
tgacttttag actaattact taagaattaa ccataacct ngccagtatg gatttctctt 360
tcttaattag cctaaccggt gtatctggcc cccactactt ctatttctac caataacata 420
tatatgcata tacacttaat aatacttata tatatatata tatat 465

<210> 7137
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7137

ggccgccacg gagtnttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcacgaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagttgc acgagttngt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaattaa naaggaacgg agt 393

<210> 7138
<211> 294
<212> DNA
<213> Glycine max

<400> 7138

tttgctttta ttggataaac gtggactttc aaaagcctag agtcaacatg taactttgtc 60
actactttca aaaaccaaga gatcattaat gggccaatgc cttaatgttt ccctcccttc 120
aaaagaatca aaaggtctgt caaatgggcc aactccttaa acgaatttag cttaatcaaa 180
atatatcttg gcaaacacaa aaacaactta actaacgttc agatctcgaa gaactacgta 240
ggtctgattt cttatcaca atctaggaat acgtaggaac aacggaaaca ccct 294

<210> 7139
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 7139

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tgcaggtgct gctactggtg gaggcacttg aatttgcttg ccagaccaca aggtgatggc 60
actcacattt ttcggattct gcacagtttg tgaaggcaat ttgtcaaaaa tttgggactg 120
agcttggttc aactgagtag ccatctgccc catctgattt gttagactct gaatagaggc 180
tcttgtctct tgctgaaatt gcatattctg gatagtcatt tgcctcacta actcttctaa 240
ggaaggttga ggaggggcct cagttgcttg ttgtctttgc tgttgctact gctgtattgg 300
aggaggaaca tgtggcttgc ttggaccatc aacattctgg aaggaggagg caagctgttg 360
ttgttgtgga cgacttgccc atctcaaaat tggatgatcc ctccaacctg gattgtatct 420
gttgcttgaa agatcataat tattctg 447
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<210> 7140
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 7140

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agcttgtaca ctgcatggga cctctctctt atctctttat gatactgtat aatgtgcatc 60
cgttcatttc tcagccattt ccccatatct atatacgcca gtgagagaca gacatttact 120
atccttgtgc cattaccggt tggtagccat attcacaaga aatatgttac ttggaacgcc 180
ttctgcttga tttatctaag cagattagaa catacatttc ta 222
```

<210> 7141
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7141

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ggagcattcc aacgacgacg ttaacgtggg cttccccaaa attaactctt ttggcgattt 60
agggcacgcc attgttggcc ctcttggcaa gctattcggt gatgtcatga tcgtgttttc 120
tcattgcggt ttctgcgtca gctaccttat tttcatttcc accacgttgg cctatctcgc 180
```

cggatgatgat gacacctcat cagcatcatg gtctctcttg ttttgggggtt tcgccacgcc 240
 aaagggtgttg tttctgtggg gatgttgccc ctttcaatta cggctgaatg ctatcccaac 300
 attgacccat ttggctcctt tgagcattat tgctgatttt gttgacattg tagccaagag 360
 tgtggtgatg gtggatgatg tctntgtgtt catgaagaat atgcctcctt tgaaagcc 418

<210> 7142
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 7142

agcttgatag ataagtgtaa actctctaac tgatgtacaa gaatatctac cataaatcgt 60
 gacaggcatt gcactttact aaaattcaac tgaagtacca caatgtcaac cataaattgt 120
 gaaacatctt tctcatcaga agtagagaag gaatgtcata caagaaacac caacgagtgt 180
 ttgtaacaaa atcattgaaa aacaacacaa aatgagtgtg taacagagat tattaatttg 240
 caagtcacat tgtcagaaat aaatatcatg aataataggg gaacctttat atgttctctca 300
 actgatgtgt agacttatat atctctccaa tgtgcacaat gctcctaaag ttcagctcta 360
 ctctatatgt gattgtacta tttcttcgaa ttatcatttc ttagaaatgt atgat 415

<210> 7143
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7143

tgaagtggat gctntaatgg agganaagaa agacatattg gggagcacga aattgaagga 60
 ataaaagagg gagagaagtt gaactttgag ttgtgtctca caagactctc attcatcaaa 120
 gttacaataa gtgttacaaa tgcttctatt tatagactag gtagcttcct tgagaagctt 180
 tcttgagaaa acttccttga gaagctttct tgagaaaact tccttgagaa gcttctttga 240
 gaaaacttcc ttgataagct agagcttagc tacacatatc cctctcataa ctaagctcac 300
 ctcttgaga agcttcctta agaagattcc taaagaagct aaagcttagc tacacacacc 360
 tctctaatag ctaaatecgac ctcttgaga tgagaagcta gagcttaact a 411

<210> 7144
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 7144

agcttatatc taggacagcc atcatgcttg ttgcaagcat ttgttagagg taaagagtga 60
 aggacaaagg tttctacatt taaatataca ctgagctgct gttctcgcta cttagattgg 120
 gattgcttat gctattgcat tgtaagtagt gttcacaaca tcgtaaggta attgtcagag 180
 ttgttttgaa ttttattttc cactgtttct tttggttcac attacaccac acaactagga 240
 ttaaacttcc ctaatagcaa gaatctctat attcgtagtg ttcaaattccc ttgaacccta 300
 cttctcttat aacatattga gtgcctaggt tatacccccac ggcttgtatc caacataaca 360
 atattccatt tatactgcca taatttctcg gattactgct ca 402

<210> 7145
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7145

tctcggctca tactgggaat acctctagtt caacacccgt gctacctaaag gcacccaccc 60
 agagggaagc tccccaaagt ccaactccga acacgactcg accggccggt aattccaaca 120
 cgacaaggaa cttccctccg aggccatttc cggaattcac cccactccca atgacgtacg 180
 aagatcttct gccatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtcc 240
 tcgaaccccc ttcccgaag tggatgacc ctaacgcaac ttgcaagtac catgggggtg 300
 tcccggngca ttccgtcgaa aaatgcttgg cccttaaata caaggtccaa catttaatgg 360
 atgctggatg gctgactttc caagaggatc ggcccaatgt gagaaccaac ctgctcgcca 420
 atcatggagg gggagcagtt aatggcagtg aatc 454

<210> 7146
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7146

atcctgactc accatanacc ttgaccagg gtgagaatgt caatccttac cctcggaagc 60
 aaaaaaagaa tagaggggaa atttccaatc aaagaacaag agaaggaaaa tttccaatga 120
 aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa gcaaaaaaag 180
 aaaagaagga aaattcccca atcaaagagt gggagagagc caaaagaaaa gaaaggaaaa 240
 ttccaatca aagaatgaga gaaagtaaaa aaggaagaag aagaaggaaa gaaagctcct 300
 gatcagggat cgaaggataa acagaagaaa tgtgcagaga ggtctctgga ccggacaata 360
 tatgaacaat acagaattgt caccaaata aaaaaaaga aggaaaggaa accacg 416

<210> 7147
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7147

ctaagcttct tataagttga accattntat caataaacac aagttgagtt ttattcagag 60
 aattagagtt tatctctttt atcttagtga gagtgattct cctaaattct tgagtgattc 120
 aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtgttgcc ctgctggaa 180
 agagtgattc tttccttctt ttcatcttca ccctgttct ttcaaaccac aattccagaa 240
 aatccacctc tgcccagaat tatctcgtgg ccataactcc cattttaagc actcaaatta 300
 agtgattctt gagcctaaat tgactntcaa aacgagacct ttcacctcgt tttggaatca 360
 cctcatttgg agccctgtag cttcagttat tgccatttct atattttctgt ccagccacca 420
 cttaacctac attntaccat ccatttcatt cattttatg 459

<210> 7148
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7148

agcttttaaaa attgaattaa aacgttcaat aactgctggt aatcgattac catatatgta 60
 taatcgatta cacaatgcaa attntgaatt caaattttaa tagctgttgt aaatcacttt 120
 tgaccactgg taatcgatta catcctctgg taatcgatta ccagagagta aatctcttga 180

aaaagactct tttgtgaatg tatgtatata tgattctgat gatgtcaaag aagaatctaa 240
 caaggctgct tcaaatagata agcattntct tcaagaataa ttcaagattg cttcaacaaa 300
 caaagccttg tttcaagatt cactaaagac caagccttgc cttaaaacaa tgtgctttca 360
 agacatgcaa ggctctggta atcgattacc aggaagtgt atcgattacc agaagacagg 420
 gttgagaaat 430

<210> 7149
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7149

tctataagac acgtgtaatt gattacggat agttgagaat ctattattac aaagagttta 60
 tgcattgaag aagtttctaa ctgtagaaac aatcttacta tctctacatg atgatgggtg 120
 atgaacatat gaatagattg agactaaggt gcaacaataa atacaaatgt cactcaataa 180
 gttgggcatg taaaatgaca aaactcttta aacttcaaaa gcttaatctt tatgttactc 240
 cccctatctc taacaagtta cagttccacc atgcatggng gtcaggcatt gaaacataca 300
 cctttctcct atcttgtttc gttagtagcc actatctacg tatgataggt atttctttcc 360
 tattgtcaaa gacatctgca ataggaataa ttgtgtgctt aggtacccaa acttatttag 420
 gtcctctcat gttagtacta aacgca 446

<210> 7150
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7150

gcttcaacat cagaccactt ccagggtgct ggtactactt cacatggact tgatggggcc 60
 tatgcaagtt gaaagccttg gaggaacac gcctgcctat gttgttgtgg atgatttctc 120
 cagatttacc tgtgtcaact ttatcagaga gaaatcagaa acctttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagaatagga ttgtgtcatc tagagaatca ggagtgacca 240
 tggcagagaa ttgaaaaca gcagggtcac tgaattctgc acatctgaag gcatcactca 300

tgagttctct gcagccatta caccacaaca gaatggcata gttgaaagga aaaacaggac 360
tctgcaagag gctgctangg tcatgcttca tgccaaagaa cttacctata atctctgggc 420
tgaagccatg aacacagtat gctacattct acacagagtc acact 465

<210> 7151
<211> 265
<212> DNA
<213> Glycine max

<400> 7151

aatcgggtggt ctgatttgtt cccataggat atcgagatgc tcgtagttga taacggaagt 60
tctgatacaa atcaaacgac aataactgtt aactcggatg tactattgag ccctgtaata 120
tgtcgagacg ctcataactg acaacggaag ctcttagaaa agtgaaacga caataactat 180
tgactcggat gtgcgatatc gacctcgaag atatggagac gctcgtaatt gaacatagag 240
gctcttagca aactcaaacg acaat 265

<210> 7152
<211> 104
<212> DNA
<213> Glycine max

<400> 7152

attatttaat attgttgggt gcaccaccaa tgttgctggg tgcacctaca aaagacccaa 60
ctgcaatggg agatgttgga ctaagaggaa ggaacggggc tgaa 104

<210> 7153
<211> 276
<212> DNA
<213> Glycine max

<400> 7153

ttcctcagat ctgtaacaag ctatgaacag ttataattta gtcttgattt aactgtcttt 60
gggcttggcg gccacgctca acaagttact ttcgacacct actgtacgtt gatttcacca 120
atgctgttat gggaatgttg cgacaatcct tataaacctt attgatacat tctgagaaga 180
cacgtgtcat gaggccatat cgacaggctt acctatagaa accatcttcc atatttcctt 240
tgagatgcga tctatccatg ttgctatagc tggact 276

<210> 7154
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7154

agctcatgct ttttcccca gctgtacagt ttattat tttt aaggactggt ggcaagtgat 60
 agtatgatgt agtaaagaaa catgcataat gagattaaag tagtggttac tagtggtaat 120
 tacagtatat atggttgata actggagagt aataaaccta gcgagggtgta atatatcaag 180
 tgtgatagaa aatgtgttac tagcatttca catatactaa ttacagaaaa ctacttatgt 240
 ttttattcaa gttaattagc tattactttg tatgtggcag ttctttcttc tgtgtatggt 300
 gagtggctgt agcatatggt ggttcaacac agtatgtnt gttctctgca ttaggaattt 360
 cccagttaac agacccttg cattatcact cactgtgagt gtcaatgggtg tgagtgcagc 420
 actctacaca c 431

<210> 7155
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 7155

tatagttgag accatatcaa ttgtctacac accccacact gtgtcttatt caccatatgg 60
 aatagaattc tttgcagtgt acctcagatc atgtcagaca ttaacacaga agatgttgtc 120
 cttgattggt ttaatttaag ttgaaattaa gaagcataga gatggtacag acatgatcac 180
 aaaagatgca cccagtagca tggcaaaatc taatatacta accactaagg aatcgaggac 240
 acaacacatc atatacaaat agagatatgt aggtgtgtgc atatgtacat gtgtgtgaag 300
 tgaactgtga aggtcaatct tatgtggaaa tgaatagaat ttacattatc agatttgtca 360
 taatggacaa gactaataca tcaagtcata ttacatttta gaatgctcat acacaacgac 420
 ttgatgtttt aatctggaag ctcatcatgt gtacacgtct aacaatt 467

<210> 7156
 <211> 450
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7156

ntgaggggtgt gtagcccacc atcttttcat agtagagtat cgataatgtg tctaccatca 60
cgatcatcgt ctccctttcc atcattgggg gtaccacctg ngccgccaga tccctccacc 120
ttttgggcgt gttctttgaa agatctgtcc ccctttttgc aaatgttctg tagttgcatc 180
ctatccggaa ccatatcaaa attgtactga tactgcctaa caaaggaaac cattangtcc 240
ttccaagaat ggactcggga agattccaag ttagtgtacc aggtaacagc taccacagta 300
agactttctt ggaaggaatg tatcagcaat tcctcatctt ttgcgtattc ccccatcttc 360
tgacaataca tcttttagatg gttcttgnga caagtagtcc ccttgtactt gtcaagggtcc 420
agcaccttga acttgggagg ggtgatgata 450

<210> 7157

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7157

tgngaggatn gatgnggacc tgggtgttgag agaaacgatg atatgagcta cgtgggagta 60
cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcgcgc attgtggatg 120
tggaaaactt attgtgcacc atcgcccgac cgccacctag taccatatgt gatgggtacc 180
ccataatcct acaagcttga gatgaggaag tgttgaacgg tgaaacttcc tgcttttatt 240
gttgaccaca gagtgggtacc tggagatatg tcgcggnggt caggagacct tgtggacgtc 300
agggtggggtg ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt 360
cgggtcaatga gaacctgtga tgtacctaag cacgcgagct ccctgcagtc aacaga 416

<210> 7158

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7158

agcttcacat cataccactt ccagcgtgct ggatctactt cacatggact tgatggggcc 60

tatgcaagtt gaaagccttg gaggatagag gtatgcctat gttgttgtgg atgatttctc 120
cacatctacc tgtgtnaact ttatcagaga gaaatcagat acctttgaag tattcaaaga 180
gttgagtctt agacttcaaa gagaaaagga ttgcgtcatc aagagaatca tgagtgacca 240
tggcagacaa tgtgaaaaca gccgggtcac tgaattctgc acatctgaag gcatcactca 300
tgagttctct gcagtcatta caccacaaca gaatg 335

<210> 7159
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7159

tgccnanata aagaaagggg atagattgaa tctagtaaga tgcattaagg atgaagaagg 60
aaaagtattg gtcagagatc aagatatcaa agaaagatgg gagaaacatt ttataagctt 120
ttcaattatg gacaaaggat cagcttggaa gtgaagacag agcatatgca ttgcaatttt 180
agcaagaggc aagaggagta tgacttggaa gtgaagatgg gagaagatgt cataccacat 240
gttactaagt ttaaataat gggatcaata atataatata atatcatgag gaaattaatg 300
aggatgtcac acatagaata caagcaagggt ggttaaaatg gagaaaggcg tcaaggggta 360
tttgtgattg caaaatacca actttaaatg caagttttgt tgtacagcaa tagtttgact 420
atactctatg gtagtgaatg gttgggttag agggacaata 460

<210> 7160
<211> 261
<212> DNA
<213> Glycine max

<400> 7160

agcttgacaa tattctctat tggcatgcat tcaaacaact ggatatccca gaaagctaga 60
ttgagtcatt cttggagcaa ctcatatgct tcttgagtga gacaactaaa atgatgggac 120
acaccaactt gttaaccact taagttccaa gaccatcatg atcaagtatc aatactctca 180
cttcttataa tatattaatg tgggtgacttg cacttagctc cctaaaataa tagatatgag 240
actagaaggg gggggggggg g 261

<210> 7161
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7161

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gggagaggat gcttcaatgg aggaaaagaa agaggggagag atttagggag ggggagcacg   60
aaattgaagg aagaaaaagg gagagaagtt gaactttgag ttgtgtctca caagactctc   120
attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactag gtagcttcct   180
tgagaagctt tcttgagaaa acttccttga gaagcttctt tgagaaaacc tccttgagaa   240
gctagagctt aggtacacac acccctctca taactaagct cacctccttg agaagcttcc   300
ttaagaagat tcctaaagaa gctagagctt agctacacat acctctctaa tagctaagct   360
cacctccttg agatgagaag ctagaactta gctacacanc ccctataata actaagctca   420
ccncatgac ananaacatg aaaatacata naaaaaagtc cttactacaa agactact   478

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<210> 7162
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7162

```

agcttgactg gcccacttac atcaaccagt atattagcac acttgatata cctttaaaat   60
agaataattg aatcgaaatg ttcagaatgt agcaaatcaa tgcaaattca agatatttaa   120
gaagtcaatt tccaagcact gcgtccaact ttcattcttt gtaatgattg aaagtcaaac   180
atttttcact gtctgaataa aatctgttaa agcaaaaactc tgcttcccaa gcggagaatc   240
atactcagta tctggttgct cacctatggt ctcaatataa atatatgtgc acatagagct   300
ataacatatc ctctaataa tgaacataaa tacaataact atgggtaaca catgactaga   360
atgctaactt gcaagagaga gaagtctatg ataggaacta atgcactatc tactcctgat   420
actatgaaaa ntnnttacia aatatgtgtc tataaaa                               456

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<210> 7163
 <211> 330
 <212> DNA

<213> Glycine max

<400> 7163

aatctgacct tcttgatttt cttegaggta accatgattt ttagcttgct ccttgggagt 60
ttaagcttat ctttgcacat tttctgactc tggaacacat cattgtacgg tttacgcttc 120
cttcgaaaaa acttagagaa aaagactttg ttaaagttat ctctttatga aatggatggt 180
atattcgtga ccttcactga actctggtca cattggcatg atcgaaattt caaatgata 240
ttccttttcc tgagatgcga aacaaccctc atccctttca tgtagggaca tgagtatttg 300
actcagagta ttgtgatagc tctatttctg 330

<210> 7164

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7164

agcttaagct ctttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60
ttcacccgac gaagacactg acaaaaaatt atcttctcct tcttggacaa agtatggcag 120
gctgggggca agtaaatattt ctcccatca gaccttggat gcaactgtgc tcttataacc 180
atatcaacta gatcttgacg ggtattcaag ccacctctcg tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
ctaattgtcaa gatcacacca gtacggaaga tcaaagaana tggacctctt ctcccatatg 360
caactctgac ttttatcctt cttttgggtc ttcccaaata cagtggtcag ggtgtgaacc 420
cgctgatata cct 433

<210> 7165

<211> 424

<212> DNA

<213> Glycine max

<400> 7165

tattacgagc tttcatcctt ctattatcat tatgatggag actcatcggt tgttcaagac 60
tattgcaagg ttatgtaaca ttttgggtta tgaaatatgt cacttacttg aagccaatgg 120
ccatgctaga ggtatttggg ttttgggtga gataaaatag ggacttttct atcactaatg 180

tccattcttt gtcccaagcc ctgacagttc atatgtctac gaattctcaa tcttggatct 240
gcacgacact gtatgaaaat cctcacacgc ttctatgttg ccttatggga tcatattgct 300
gatgtcaaac aatctataca tcttctctag tggtctgttg atgaacggac tgagattttt 360
cattttgatg agcacggagg tagcttctgt ggatgatgct tctacgctca tggatatgat 420
cgac 424

<210> 7166
<211> 414
<212> DNA
<213> Glycine max

<400> 7166

agcttgacca atcctgaccc aaccgggca tagtcagtca gtgagaacct gtgatgtacc 60
taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa agcacggagg 120
tttgtgtggt ggctggccag ctatggatct tgagtgatat ttgggatatg gcctctggta 180
atcgattacc aagggtgggt aatcaattac aaggcttaat agtgaagaca gacagttaag 240
atggtctctg gtaatcgatt acaaaggagg tgtaatcgat tactacgcct acaaagggga 300
ccaggaagtc aagatggctt atggtaatcg attaccaaag ggggtgtaatc gattaccacg 360
cttagaagtg gaactggaat attgaggggg cctctggtaa tcgattacca atgc 414

<210> 7167
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7167

tgaagctcaa ggaacaagga aaagnttgaa gaagctctat aatatgttnt ggcttttaca 60
tgctaactc atttgagtgg catttgtatt gggtgttaac tctgattgtt gcattcttagc 120
acatttgata tttgtttcgc attgtgcac atcatagtgt gtgtgaagga aattttctaa 180
gttagaaaac tttcttcaaa ggcaaaaact ctttgtatta atcgattata gagttgtcgt 240
aatcaattac aacaggctgt ctgaagcttg tagagttaag tctcgtagtg gtttaattcta 300
ttacggtagt aatttaatcg attacattgt tgggtgagac aatgattnga tttttcaaga 360

gtctctactn taattgatta ccaagtagaa taatcgatta cttctctctt gtttaagttg 420
 ttc 423

<210> 7168
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7168

tgcgcàtatg actctacgaa cgctcacttg cacaagacat tctattaacc gatataatgc 60
 acccatatac aatcaaggca gctgtgttac ctaaattatt tacacgtact gccaaaggtgt 120
 attcgggtact tacatcacac acatctcctt ggctaaattc acatacatgc atactccaag 180
 cattttgggg taccaaaaat tgcacatgtg cacatcttgg tattttctaata acctatacat 240
 acacaaactt catgatgaat cttgactatc tacacaataa ggtgctacat ttcatgcctt 300
 ttttcaagct tttgctacct aaagccgcat gcagaatgca gcatattggt cttcgctgac 360
 taanatagta ttcaaattat atatata 387

<210> 7169
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7169

tatgcagatt cataaacagc attctcttcc acctacatct aaatgctagt tctttatctt 60
 ttgagaagag agtaatgagg ttataaaata gttctaattt acaggaacat catacacatg 120
 tgagataata atggattttac ttagcattca tgaagctatc attaaagctg ttatcatatg 180
 aacagaataa ctttatgtat gacataatat tgtttaagaa atggaagaca aagtcttaac 240
 ttacacattt ttcaagccca actaggacca agggatcaca ttgtataatg ccatacttct 300
 tcgaaaactt ttgcctacaa gcacaaaaca gttttttgga attacaattg ataaacaagt 360
 gtgataaagg aacttccatg aatcccttgc atacctactc tatcaaaata tatcatcggt 420
 cacatnttta aacatctacc 440

<210> 7170

<211> 151
 <212> DNA
 <213> Glycine max

<400> 7170

cctgtctect atggcgatta gtcacagtg tacatatctt ctattcgtat ttacgagttg 60
 tcgtctctgt ccgttcaaag attgatctga taatctcatg tcttcccaca cggagattaa 120
 catcatcaat ccttctgtgt ctggataggc t 151

<210> 7171
 <211> 469
 <212> DNA
 <213> Glycine max

<400> 7171

taatcgtaaa agtaaaagct aaagaagatt caactaatct agactccaat taactcttat 60
 ttctattaat ttgaacataa attgaacaag taatggtata tgtaaaactga aattctcata 120
 atagaatttg tcttttgtca tttcagacta tcagcaactc tttattcttg ttccctaatt 180
 actagcacca aatccttgca gcatttccat ttcattgaca cgagtgcagg gcttcagacc 240
 ttcagacgaa gtcttttagg tacgtgggac tcacaatcct ctttttagtt ttactcacta 300
 attgcacctc tttgtttggt tgggtgtacc ctgttgttgc tacagtagca tcttcttgtt 360
 gacttgctat gttatccctt gtatttcatg agctgtcact tgccatattc tcgtagtagt 420
 tgtaatgatt gactgcatta taaaaaacta gaaagcaact gtgtgtctt 469

<210> 7172
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 7172

agcttaggtt aaattagtct aaactttggt aagctattta agctgagtct agtccaacaa 60
 gagggatctg aggacaaaac ttagtgtaag ttagtctaaa cctaggaggg ttgtctaaat 120
 tgagcctagt ccaacaagag ggatctgagg acgaagcttg gattgattca ttctaactag 180
 ggatcaagat ttagtaatcg aggctataac atagaacaca caagcatgat tgattagaga 240
 aacatcttta tatacatcag ctattttggt agatagacc aacaccttta cctactgctg 300

tcaatcttac atacattgca ttttactatt cttagcctat acttagttta atattgttct 360
 aaatcatcaa ttatcaatgc ttctttcaat aatgccttgt tgctgaattt aatcctatct 420
 aatactagtt ccctgagttc cataact 446

<210> 7173
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 7173

aagcacgtta agaactctat tccagtagaa acgttgtttc tacttcaaaa ccctttgaac 60
 tacttcacat agacttatct ggtgcctcta gaactatgag tttgggtgcg acttactacg 120
 gcttaggtat agtacacgat gacctccgat tacatggact gtggttttga acaccaatga 180
 tgaagctttt gacggggcct gcactcttgc ccttgctctt ctatat 226

<210> 7174
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7174

aagtcacctg ccgcatgcaa gctctaagca agcatatagg acttgatttc cctctntttt 60
 ctcttctctn tcaccaatat taagtcaaata aggcttactc aaagttttag gaattntaag 120
 gaagcattac gaaagcctcg gaagctccgg aaaccatttt ccaacaaaac gtggaggatc 180
 ttgataagtt cccccccccc cccctttgct aaatgcactc atttttatct acacacccca 240
 ttttgctaaa tacactcccc ttgccccttg ttttgctgat tctttttcca taacattacg 300
 gaactttacg aattacataa cgatacttgt tttcttttgc caatgtcacg aaactttacg 360
 gattatgcaa ccataccctc tntgactttt ggaatgttac ggaactctac ggattgtgca 420
 ataatgctta ctttcgactc ccgacatgac gcggaacttc atagaatgcc taacgatggg 480
 tgtcacgttc ctgc 494

<210> 7175
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 7175

atttcaattc tgcctgacaa ataataaatt atgttttatt gttagtaaata tataaatttt 60

ggctactaaa caaaatcaaa gaagaaaact aacatacctg.aatatcctcc tatatcaaat 120

tcttgcatcc cggatacaaa ggcttctttg aatcactctg caatccttca tacatagggg 180

catgtgcttg ctaaaaagac tcttgtccaa ggtcacgaat catatcctcc aagcgatctc 240

ctatatgtac atcaaacggt tcagattgcg acccactttg catgtgtatt aattcaccat 300

gccatatcca cgtcgagtaa ttcttcttaa tcccatcaca caatagatgc tcccacatgc 360

cgcccagtaa ttgttgtctt acattcaaac aattgatgca aagacaataa t 411

<210> 7176

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7176

agcttgttca accgaccgag gtagcatgag atggcagcaa agagggagaa caattttatg 60

gtgattcata cataagtgag aatgaaattt caggtaatca taaagaggaa gaggtcacgg 120

aaacgaatgc ggatgcaaga ggttttacag gcaaacaacg cttgttggtg gtagctaaca 180

ngttgcctgt gtctgctggt agggaggggtg tggagtcata tcgccttgat atcagtgtag 240

gagggctagt cagtgcactt ctaggcaaga aaaattttgt caccttgcat taattgtttt 300

ttttggtgtg ttttggttaat ttgtttcttg gtgaagttgt aattgtaact cagctatgct 360

aattagttat cttnaattgt tgatgatctc accatagagg tcacaacaat gatagttatc 420

taatcttcgc aacattctaa taataatc 448

<210> 7177

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7177

tgttcttgag aaatgctgga aagccagata caccgagatt aataatgaaa tcacagcacc 60

ttcttttgta tacctgagga agaaagatgt tgaagcattt tattttactt ttgaaaaag 120

gtataaagag gctgacagcc caaagtccca aaaagatgga cttgcttacc ttaatttcat 180
 agcctcgtag ggagctacca tcagcaagag caatgccaga aatggcaact caagttcacc 240
 tagaaatgaa aaagacccag aagaaaatgt ttctttcctt caatgttcaa tcattatcca 300
 acaagtacga aaaacaaaaa acacaactta ttgttcttat tacactccag aatcaggatt 360
 ttcttttctca tgtttcgcag ttatatacaa gagaagatat agagcccagc ctgagggttcc 420
 tagagaaatg cnttgantac accaattc 448

<210> 7178
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7178

agctngtagg actnntggca agcgtaccaa ttgtcgttgt aggtttcaca ttataaaaa 60
 agagttcgtc tccacagga cttgagttta ctttaattcat tcggataaag gttatcagtt 120
 caacagttat gtacaaatth aattaaatat cattagtttt gttttgacta actaaagaca 180
 acttaaagta aaagaatagt gaaaataacg gaatcacgga ataacagaaa tacggaaaat 240
 atggaaatac gaaaataaca aaattcagtg tctcgaaaat atgtaaatta cataaataat 300
 aattacgact tanattaatt caagaaaaca taggattgga tttcatcggt cataccctta 360
 gtatcctagt aagattaaca tctatgaatc attttccaat attactgatg cacacattaa 420
 gttatcctaa gtcaatccct cacacttgga acctaagaat atntactaaa ca 472

<210> 7179
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7179

ntgttcaata atcagggcat ttgttgacaa aaaataatat ttgttaattg aagtaaaagt 60
 atgatatatc ctaattcgaa aacagtaaac gcaagcaatt aaaagtgaca acagtggttt 120
 aaaagcgttg ggtcttctta ataaacgagt tgatgcatat aaagatattt ctctaattta 180
 gaatgttctt gtgttctatg ccgaagacta aagtactaaa cctcgatccc tcacaagttt 240

agactaattt aagccaaact tcgttctcag atccctcttg ttgaactagg ttttaattcaa 300
acagcattat actcacagca taagacaaac taaaaccctg cactctatcc ctagtaatgc 360
agntatctag ccctgctcta tcaagttcta aggaaacagt acacttccca gtgctaaagt 420
tccctaacaa tacacactag tgggtgaata gacaaaggca tgcaacaata aagca 475

<210> 7180
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7180

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acaaagtact ttcgacacct actgtacgtt gatttgacca atgctgttat gagaatgttg 120
cgacaatcct tcaaaacctt attgatacat tctgagaggc tggttgtcat gtggccatat 180
cgacatcctt ctctatcata agccatcgtc catttttcct ttgaaatcca atcaatccat 240
gttgctatgg ctggacttag atgacgaaat ntttctaaat tttgaaaaaa aatgtgcttg 300
caaggagtgt aggtgcata aaattagtta tgaataacaa ttttaagtat atatganagt 360
taaataaacg tgaccatcat atatgaaatc ttaccaatt tcttcaacat ttcttt 416

<210> 7181
<211> 471
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7181

taagccta at agcaagctaa tgagagaggt aactcanatg gtgccttaag tttcaaacac 60
atgacacaaa acaacttgta tgtacacttc caaatgagt tattctacct gctccattga 120
aataaaaagca tcatttcctt actttatttt caaatgatt gcacacttcc aacaccctat 180
gctagtacaa atcaataata gtttattcta cctatatattt aaattctatt gaatatggat 240
agatgtaaaa tgtaacaagt gcatccatga attataaaat aaaaaaagt catcaatgat 300
tgaatagagt ccacatggat gtgaataagt attgtgggga tcctagttga aacaccatt 360
tactgaacaa caaccactag aataaagcag cacaataatt gattatntgg tatcactgta 420

cgccaatcaa ccctcaaaaa ttcacatga aataagaaac aagactcact c 471

<210> 7182
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7182

agctntaact tgtatttctt taagtccttt ttgacacact ntatcacacg agtggttttc 60
 aaaaatcttc taagataact gtgttttctc actcactgga caataatcca ctattttaac 120
 aaaaaatgta tttttaatca ttggacgaca cactagtctt aatcatttta acagaaaact 180
 ctgttttctc ataccgcttg ttatcttggtg aaaaacttct atttggtgaaa aactttatat 240
 ctttggttaa cacaccactc aatctccctt ctagtgtgat ttgacaccac caccactatt 300
 catcatcaaa tcgtttctcc aacaccatca accatcctcc gcacacgata gtgcagatct 360
 ggctagtgcac gacacacagt ga 382

<210> 7183
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7183

tgtctcagcg tctatgcgag acagagacca acatgttagc tatcatcgcc aagtaccaag 60
 aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gcccaagtat 120
 atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccgg ttgttagcca 240
 aggccaaggc gatggcagac acctactcca cccccgaaga gattcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
 tgggtctctca gaccttgact agatatgact tcctttntga aataaaatga gttggtccca 420
 ggtttctact tcaaaaagct tgtgcaaac aaatcactcc tacatctcat ctcta 475

<210> 7184
 <211> 467

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7184

agctngagca ggttgaatt ggaaagcaac aaattaactg gagaaatacc ctctccctt 60
ggtaatctta aaaggcttca attcttgtaa gtatggcatt ctgtttgcta ggctctacat 120
atatataatg agtcttaggc cttagcatgt attttttgtg caatgtttta aagtgtctgt 180
ttcttgtcct gctaccagaa cattgagcca aaacaatctc agtgggacta ttctgaatc 240
acttgccagt ctccaatct taatcaatgt gtatgtaaaa taatggtttc tagaactctg 300
ccattntttt aaagtatatt tcattaattt agtatctgat tgattattca aacttctctt 360
ttgcagtctg ctagattcaa ataatctgag tggccaaatc ccagagcagt tatttaaggt 420
tcctatatac aagtatggat ggtacaacca taaaattagt atatgat 467

<210> 7185
<211> 477
<212> DNA
<213> Glycine max

<400> 7185

tatgacatgc ttggattagc gaaagagagt ttattggatg ctatttttatt tataaatgag 60
tgctctcagt caaatgatcc tgatctctca ctgaggcaaa ataaagttcc agattatgcc 120
gagcgttttag ttaagaagca gatgcgtgct gcttggttat ttcgagaggc agctattaag 180
catgggtgggg tccatagtca gggatgatgc ggtgatatgt atggcccaca gactgatgat 240
tctgaatggg agacagctag tgaaagtgat atatgaaatg atggacggga tgacatgggc 300
gaagacgacg atggtgattg gaataatgat gatgagagga aaaattatga caaacctcgc 360
atgaaaggta ttttcaactat aaatttccta tctatatgct ctattaataa tctgcattat 420
tatgtgatcc tacttcgtgc ttgtgattat gcatgtctga tatggggagt cgggact 477

<210> 7186
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7186

agctggcaca ctcaaagggg catctcttct atatctttat gaaaaactat tatgtacagt 60
 tgtccattac acaaaaataa caccatctaa gcaaacttaa ctgagtagag actagtactc 120
 tccttcttcc ataccaatat gtcctcctca ctcagaatca aattaatact tctaaagtca 180
 taacctttnt ttatctaagc aaattagtag atttatttct gctaatagata tagagatttc 240
 tccattccca tctccacatt caatttcctt ccttacgggc acctaaacct gacaccctgg 300
 cctttatggc tactacaagg gtgtataatc tagtatactt cctaaatgtg aaaataaagc 360
 a 361

<210> 7187
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7187

tctcgtagta gaacataggg aacgtatcta ccataatcgt gatcatctcc ctctcagtca 60
 tgggcgggat gacttgggct gctaggtctc tccacctttg agcatattct ttaatggact 120
 catgttctcg cttgggtcatg ctctgaagat ggttccgata aggagccata tccgcgttgt 180
 attggtactg cctaatgaag gcagtttcca agtctttcca tgaccggata tgagaagctt 240
 ccagattggt ataccacgcc actgctgctc eggctaagct gtcttgaaag aagtgcgtca 300
 acagctcttt gtccagagaa tatgccccca tccttcggca atacatccaa agatgacctc 360
 ttggacacgt cttccctttg atntatcaaa atctgggtatt ttaaactt 408

<210> 7188
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7188

agcttgcctt tgttcttcac cctaaagtgt atataaatta ggaacaaacc tttttagtaa 60
 gcttgctcac ccctagaagc tctaataatc tcctatactt tntggggagg gccattcttg 120
 gatggccttg attttcttag ggctcacttg gacccattt ctaccaacta caaattctaa 180
 gaaactatat tatctacata aaaggtacac ttctctatat tagcatagag agtatttttc 240

ctaagaactg aaagaacttt ccttagatgt cctaagtgat catttaggct cttactgtac 300
actaaaattt catcaaaata aatgactacg aatctaccta tgaaatccct taagacatga 360
tgcataagcc tcat 374

<210> 7189
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7189

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60
cctgacgaag aactgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120
ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctatgctctt ataccatata 180
cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagca 240
tccaatcac actgtcacia acatttttct ccacatgcat aacatcaata taatgtctaa 300
cgtcaagatc acaccagtac ggaagatcaa agagaatgga cctcttcttc catatgcaac 360
tctaactgnt atccttcttt tgggtattcc caaatacagt gttcagggtg tgaacccgct 420
gatatacctg ctcaccagtc aacggtatcg gcgcaatatc atgc 464

<210> 7190
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7190

agctngaagg gtgagcgaat gagatgtgat gggatgtgta gagggttcaa tggaacctag 60
tatttatagg agtggagcgt gaccgttggt cattgtttgt agggactatt atagcccttg 120
cagataattt ccgagttgta gatactagtc gggagcttat agataatgtt aagagataaa 180
catatgctta tagataaaag gtataagata atcgtaacctt ttagataatg tgtggactta 240
taaataatta atatctgtca atagataaga tattgggata tattcaaata tgagtaggtt 300
agagataacc tgttggttgg ggagtctgac tgctaagggc caagcatctg cgctcctata 360
gcagggctga tgtggagggt ggacacgtgc ctcacagtac catataacat gtcacatgta 420

<210> 7191
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7191

cgcatgatta tgtatgatgg caattatggg gatgctccac cactgacttg gcccgaagat 60
 gacccattg aggtgcactc catcatcaaa aggtatgaga gcataaagaa tgagaaactt 120
 cccaagaact tcgatctcaa taattttttt gagattagga agaacatggg tgacaatgat 180
 atttccaaag tccaaaaaga gaccctcaag atcaaataat caacttggca tccaagcttc 240
 aacaacctag gtgtagagga gctgaggaat ttcacgcta ggttggacat taagcttgaa 300
 gcttgtaatc aacgaaacga aatgtcgaaa cacaaccatc aaaatgaagc caacttcaat 360
 ttcatgcaaa gcatggttca atcagacagt gttgctccaa acccaagcca actcaatttc 420
 atgcangaaa tctctc 436

<210> 7192
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7192

agcttccatc aattgggtact agtgagtcac aacctttggg cactcttacc ataactcana 60
 cctttcttta ttttcattta attgctttat cataaaaacc aaaattacaa aaatatttaa 120
 actctctttt taatcaattc tattgttagt ttaaataatt aggaatacag ctagtctttt 180
 gggtttgaaa tctaaacttt caagtccatt ggtactatgg cataggatct agtctacaat 240
 agagcatgga gttgcactca tatctctata tgctattgaa aaataagcaa agctgtagat 300
 cgacattgat actaaagata tggagcctaa agagattaca agatatgaag aggctatgct 360
 atagttttatc actaaagcat ctctcanaga tcacaaggat gacatagttg tgacaaatcc 420
 tagtgcaaat cgtgtgtatc caaaactagt ggttggtgat gatgatcaac taattg 476

<210> 7193
 <211> 406

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7193

catgcaagct tcttaatggt atagaattca atagctcaag gaagcgaatg tcagtgatag 60
tgaaagatga agaagggaaa anttttctac tctgtaaagg tgctgacagg tctgtgataa 120
aataatttat agccttcaac ttctagcctg cgcatttaac ctatggactt gcctaactta 180
ttttttcatg cagtgtcatg ttggaaaggc ttgcaaacia ttggaggaag tttgaaagga 240
aaactgtgga acatgtgcgt gaatatgctg acacaggtct aaggacccta gtacttgcct 300
attgcgaact tgatgaacia gaatacaagg agttcgatga taaattctct gaagtaaaaa 360
attctgtccg cgcagatcag gaaactctga ttgaagaagt atcgga 406

<210> 7194
<211> 107
<212> DNA
<213> Glycine max

<400> 7194

agcttaatat atcattcaat ctatataact attagtagga ttctctccta aggaacatta 60
ctttcttagc taattaagga atattacttc cggcgcaccc tactatc 107

<210> 7195
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7195

agctngttac tatgataaga gcatacctgt tgtttcctga agtccaagta caagactttt 60
tgtcaataat atcaccaaaa actatcacat taacaaaatc acagcctcta agatttcgac 120
aaattattag gtagccttga agcattatgt ttttatgatt ctaatctacc attctcttta 180
tatataatac ataactatat tttttaattt gtaattaatt ataatanntc aatatgttat 240
gtaaaaaaat agttaaataa attaacatta taatgattnt agactatcta ataatttcta 300
gtaagaattt aatgtataac aaacctggaa gcacagaagg ctaccacata atccgtccca 360
gaacaagtga aaatactatg tggatcatca taagcatagc tgtaagaaag tggacatgcc 420

tncttaaact tcttcgaata aaacgtggga tt 452

<210> 7196
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 7196

aggaagaaga agaggaagtt cttagagact cagaaatcaa tgtggaaaaa ctgcttgtgt 60
 aaagaatgaa ttggacaaga tagatgtgta gaatgattga ttgaaatgaa tgattgaatg 120
 cataacacaa ccttgctttt atagactctt catgtctggt caagaaaacc attagaagag 180
 ttatgacttt agaaaacctt acaacctata tgaaaaagtc aaaaactatt tggtaaacag 240
 gttttgagac aaatccatgt gctactcagt tactgaataa actttttcaa aaattatcat 300
 tggtaatcga ttaccaaadc agggtaatct attacacata gctttcttga gaaagaatgt 360
 gactcttcac atttgaatct gaatttcaac gttcaagcac actggtaatc gattaccaca 420
 acat 424

<210> 7197
 <211> 212
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7197

agcttgagta taattgattc tttgtgttat gagcctacat caaacagttg gattattgat 60
 gtttctgtca caatcaagcg attgttgatg tctccatatg tgtgtacact gtgatcatgt 120
 tttcgtttct agaattcatt tgaaatgtct gttgntaatt ctgaatgagt gatccttctt 180
 gatttaaaaa atatcgtctc ctaatcaatt ga 212

<210> 7198
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 7198

tctcagagtc atctagaggc acgtgcacgc agtgcattgt tctgaatgag ctaagatcac 60

tgtgctgata ttagtttaaag agagaagagg agaatagtgc ttacaatagt tactcacacc 120
 ttcaaactctt tggactgtga agatctttcg tgataagtga ggcgtgtcac tttcttgagt 180
 tcagaaaaaac 190

<210> 7199
 <211> 184
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7199

agctagagaa gcctatcgat tttatttcct gcattaatta atatactata gnnngcctta 60
 tatatccgct agaaatgtat gagcaacttt gaacagctct gactacaact ttgttcaagt 120
 aagaaaacaa aggcaaccga tgattaccaa ctattaagat gggaaaaaat ggctatgttg 180
 gatg 184

<210> 7200
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7200

agcttaggct aaattagtct aaactttcgt aagctattta agctgagtct agtccaacaa 60
 gagggatctg aggatgaagc ttagtttaag ttagtctaaa cctaggaagg ctgtctaaat 120
 taagcctagt ccaacaagag ggatctgagg atgaagcttg gattaattca gtctaactag 180
 ggatcgaggt ttagtaattt aggctacaac atagaacaca naagcatgna tgattagaga 240
 aacatcatta tatacatcaa ctgggttggt agaaagaccc aataccttta cctactgctg 300
 tcaatcttgc attnttattg ttttttagcct agacttagtt tatttctggt ctaaatactc 360
 aatgtttctt tcaacaatgc cttatttatg aatttaatcc tgtctaagac tagttccctg 420
 agttcgatac tcggattcat ccgttttaat tntaaatact tgatgatctg 470

<210> 7201
 <211> 299
 <212> DNA
 <213> Glycine max

<400> 7201

agcttctcgg ctcatgctga gaacgcctct agttcaacac ccgtgcagcc taaggcacc 60
accagagggg aagctgcccc agttccaact ccgaacacga ctcgaccgga cggtaatcc 120
aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180
tacgaagatc tcctaccatc cctcatcgcc aaacattttg gccgtggtaa cttccagaag 240
ggtccttgaa ccccccttcc cgaagtggta tgaccctaac gcaacttgca agtaccatg 299

<210> 7202

<211> 221

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7202

agcttgtaaa tcactttgaa tgtgtacgta cgtttagatc tcgcaaagaa aatttaacaa 60
ggtggagtga agatccgagc cacctacact accctttagg aggtctaggt gcctaaacaa 120
ggaactttaaa tttcaatgga aattttgaaa caccctntac ccaaatactc ttccagtctt 180
actaaaatat tgggatctac tgtttcttag cttcttacga t 221

<210> 7203

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7203

agcttatata tcctctcagg tgaagataat agaccttggt ctctgctggt aaaatgtatg 60
tttatgcatt agttcttaac aaattttctc attgtttcct tgtttccttg ttttctcatt 120
gtcacaattt gacattggct tctcatggac gagaaaatat caagttgagg agttccatca 180
ttgaagtacc ttgtttcctt gttagctata tatataccag aacaagggtta ttattattat 240
tattattatt attattatta ttattattat tattattata tatactgcaa atgtatgatt 300
atataattnt ttgatatttt aaaccattta tatttttctt taaatttaat ttatatctca 360
gaattctctt aacattctaa tttgtgggtc aattctttaa ttctcaatta taacaatata 420
ttcatcaaat acatcttaat ggtaattgat gtta 454

<210> 7204
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7204

agctntgact gagcaatgtc acagtatgga tagcttattc ttataactcta taaccttaac 60
 tcttaggcatt tcattagata aactttttcca ccataaagga gagtaacagt gctacagtat 120
 gtcattgata ttgaaaaatt aataaaatgc aggtataaag agctcgtcatt atgctcataa 180
 caagagaagc tactggaaag gagctggcaa tacacttgac atattggatt ggaacctaac 240
 agaactactg ccagctaata catggacgat tcagttacaa gctacaacta cataactaac 300
 tctatattat c 311

<210> 7205
 <211> 202
 <212> DNA
 <213> Glycine max

<400> 7205

acttagagca cctgaggcat gctgctatac attcaattcc gagcgtttcg ttatattact 60
 agactcaatc attacatccg agtaatatgc tatcgctgca tgaattgcct tacagcttaa 120
 acatttaact ttgagcgtct cgttatatta caggactcaa tcagacatcc gagtaaaaag 180
 tcattgctcg ttgaattggc tc 202

<210> 7206
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7206

agcttctccc tattgtgcta taaatagggg gagaagtga gaagataagg gttcaacccc 60
 ttaggcactt ctctctcttt cgaatttgct gaggaaaatt atttccgtga agaaaatcca 120
 agccgagacc cttccgtaac atttccgtga gtaattacgc gaagattctc gaccgttatt 180
 caagatccat cggtcgttct tcgttntctt cagtcttcaa cgggtaagta cctcaaacca 240

agcttttcaa ttcattatat gtaccctgtg tgggtccacat tgtgtttcat gtattttcat 300
tctcgttttc atttactttt tataccccct tttgacgtgc ttaagccatt tatntaagtc 360
atttctcacc taatctaana ataaaataaa tttccaccga tcggttgaat tgtataatcc 420
gttaattgtg gttaaaatga attccgactg ttcgggctg cgcgaaccac gttgga 476

<210> 7207
<211> 133
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7207

agctcgtgag gattgatggn gaccctgtgt tgatagaaac gaggatatgg gctacgtggg 60
agtacgtgag ctcagttgga ggtgggcaac aggggatggt gggtttatgc gcgctctgtg 120
gttgtctaaa aat 133

<210> 7208
<211> 164
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7208

agcttataca tggagcaagg taaattctca ttatatcata ttgcttaagc acaagaaaca 60
tcatattgcy aggtaaatgt taaggcagat aaacaatcaa aactcctatc taatatctac 120
cactctatgt ctcttctatn tgcagggnaa agcaatcctt gcta 164

<210> 7209
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7209

attgaaccct tgagncctng atctctagag tcctctagag gcctctgagg catgcaagct 60
tcgactaatg ttcggctcga tctgtagcga tagagcgttg ccgcaggcaa cgaccgaag 120
ggcgaagcgc gcagcgtga gtaatccttc ctccaccacc atcactttca aaagcctcgg 180
aattctcaaa cgaatccgca atcaaattt ctgcccaagc ggngaaggat gagaagcttg 240

tagaacttcc ccaggcaaat atgctattgg agcanagtgg gtgttcagac acaagctcga 300
 tgaaatatgt aaggttgtga gtggaacaaa gctaggcttg tggccaaggg ttattcacia 360
 caagaaggta tagattacac tgaaactatt gctcatgttg ctctgtctaga agcaatgcac 420
 attttaatat cctttgctgc ccatcatggt atgatgttgt atcacatgga tgtaaaatgt 480
 gtgcttcttc atggacttaa tatcgacgcg tctatgttga acaaccgg 528

<210> 7210
 <211> 220
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7210

agtcttgttg acaagtgtcg catatgttca tttataaagt cttcactttt ccaagcacac 60
 caggaacctc ccaccagcaa gcagggttat tttgctatct ggtccagcag gtatacttag 120
 caagaattta acctgtcctg cagaaacctt ttttaattnt aagttggctc gactaatact 180
 atctacttat atatctogaa gaaccttacc agctcatgct 220

<210> 7211
 <211> 169
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7211

agcttgcact ttttgaacc atacatgaat tnttgacata aataatacaa aagaaattat 60
 tatttatcta aatgatataa gtcaattatt atttatattt atgatacaaa ctattgatca 120
 taggtgagaa attgattctc cccaaaccaa cttctcacat ctcttttat 169

<210> 7212
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 7212

agcttgtgca aatcaaatac ctctacatc tcactcttag catgcattat ctttctttac 60
 ccactcctca cgtttggctg tttagggaac aactataac taaacgcgcc gcaagggatc 120

cctatcgac cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga 180
 tgatagccga catgtcggct ctgaaagaac aaatggcctc catgatggag gccatgtta 239

<210> 7213
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7213

agcttagcgc ggggccttga tgctgacgct ctgtcagatt ctcccttggcg ctaagcacac 60
 tgaagctcgc cttagcgggtg gatgcacgct tagaccaact gctactcntt gcacttcaaa 120
 acttagcctc tttttcatct gaaattgcat atatctcatc attaaattta atggacatat 180
 tctagagact gctgtaacca taaaacaaga tttttttaca agaattactc aaaataacca 240
 taaattgggg aactatacaa gctttggaaa atgatttcta taaaaaagtt attcgtataa 300
 ggcgactaac aactctccca aatttacaat tttgcttgct ctcaagcaaa gaaagaacag 360
 ctactagtc cttaagcgac aaagatagtg gtcagtcaaa agaaaatggg gtctgattat 420
 aaaggaatca accattgaac tgaatatatg aaatctta 458

<210> 7214
 <211> 123
 <212> DNA
 <213> Glycine max
 <400> 7214

aaacttaagc gttttgtgta aataaaatgg aggctgctat tgtaaatttc tgaggttcta 60
 acttctaata taataacttc atcttatctc ttcccatcca tccactcgca acaaccccc 120
 ata 123

<210> 7215
 <211> 352
 <212> DNA
 <213> Glycine max
 <400> 7215

gatctctaag tcacctgagc tgcaagctta aagcgcggt ctgggagacg aaggtcatag 60

tggctctcgat atacgaagat gatgttccga gtacattgga tttggtacga ccatgccctc 120
 ctgatttcca gctgggaaat tggcgagtgg aggaacgccc eggcatttac gcaacgagca 180
 taatgtaaac ctttacggtt ttaaaagctc tatagttggg cctaggcttt agagtctttc 240
 ctattgttaa ggctttgtgt ctttcgtttt tgaattcata atacaaggat ctttcttcat 300
 ctgttcttac gtctctaccc attctcatte atttgcattg ttacttcttt tt 352

<210> 7216
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 7216

tcagagtcac ctgcgccatg caagcttctc ttggaccttg aacaagcaac tcactctctc 60
 tttcataacc ctgctatgtg ctgcgcactg ggccctttct tcccttcgca acttgagtgc 120
 attattgcta ccccatagag ctccgcgaaa tttgttcogg ccatactctt ccttgcgagc 180
 cctcttggtc tcttgttcaa gggctcttgc gcgaattgca ttctcttccc tgaacccggc 240
 acactccttc cgaacgtgtg taccacccaa cttgaacttc tccttggcga gttttgcctt 300
 tcctaactct gctttgagag catggacttc ttcgctactct ctcggtgctt caaaactctc 360
 ttcgctgacg actcttaact tggcgagcca atctaaacct tgtatgcgaa ctttcagcca 420
 ttcgtggtac ccaccagtga tgccattacg aatgcctcta agctc 465

<210> 7217
 <211> 192
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7217

agcttaacat cagaccactt ccagggtgct ggatactact tcacatggac ttgatggngc 60
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgctgtg gatgatttct 120
 ccagatttac ctgngtcaac tttatcagag agaaatcaga aacctttgaa gtatttaaag 180
 agttgagtct aa 192

<210> 7218
 <211> 475

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7218

catgcgagct tctaagacga tgattaattg acctaatatt atagcttatac tttcatggct 60
aagnttgtaa tcttgtgcag atcgtgtttg tataacaatca atttaaaata taatataatg 120
attataatga gtaattaatt ttaatatcaa tataagctca atacatttat gcgcataatg 180
gcaatgaaga ataaattaaa ctatctgcac aattttattct tgtataataa gtgacactaa 240
ttgaaatgta gcataacgac aactaacaac aatgttttat taaatgcaat gtacatggca 300
agggaattaa tttagtttaa tctaaaacga gtgcattttc ttagccaata tttaaataat 360
gctaataata gcttgcgttc accctacata ttacttatnt ctttacgtac atgcttatca 420
tctaaattcc taatatataa tgtacaattc tataatgaga aacgctatat aacaa 475

<210> 7219
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7219

atctctaagt catctgaggc atctgccgca tgcaagcttg aatacaatga aactcgcctt 60
ttaacattgg tatgactaac atgaatgntc tcaggacacc gtagttcagt ggactgacaa 120
cgccacaata ctagttggga tagtgtcaaa agagacgata gcccttgccg ccaccttaat 180
acgagcatgt tcacgcttta tatagacttt acagctttca tgtgctgag 229

<210> 7220
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7220

agctntcatc ttctactcaa tcatcaactg gattacaatt actcactttt gtttgtgtca 60
atgctcactt ttatagtggg cttgcatcaa atttcataat tgaacattcc attgatactc 120
tgccccctca cttaaactctg tgcaataaac attaggttcc atttactaac aatagccaaa 180

gattgtatgt gaaaagtttc tattctataa gataatacca aactgatgaa atcaactaaa 240
aagttcccat gtgaaaaata aataatgtta aaagtgtcat aaatttataa ttaaaataag 300
acataacaaa acatacccaa taatgtcatt ttgacattcg atcaaacaca taacttgcaa 360
ccaataaatc agtct 375

<210> 7221
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7221

agctttcaac actggcaact gcaagatant tgtaagttct ggcatatatg ggattaggcc 60
aaatggaaaa attacaaatg tcaaaagact aaccggtagg gccatgacta acacaaggcc 120
aataaagcaa cggccttaag cctcttttca attattgaaa ttntatatat ttttaaaata 180
cttctaaatt aatagataat aaattttatt atattatttg tatttaactt gtttctaaaa 240
taattagtaa aattttattct ctctaaatat aaaatagaat aactatattg aatgagaata 300
tttttaagaa ttatttgtgt tgataagaac aagtaaaaaa attctctana aaaaatatct 360
ttggattctt tttgctaata ttttctctta ctatatTTTT cataatgcac aatgaacaag 420
atagattc 428

<210> 7222
<211> 459
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7222

agctntntgg agtagatata tgggaccaac tcattntatt tcaaaaaagg aagtcgtatc 60
tagtcaaggt ctgagagacc atacaagttt cctaattgatt tctaattatg tgggccatta 120
agtctatcat atgctgacaa tagccgagaa gcccatgaat ctcttcgggg gcggagtagg 180
tgtctgccat cgccttgccc ttggctaaca atcgngaaag ttcttgactc ccgttcaagg 240
taagagcaaa ccgatccatc cacatgggtg cctcttggtg taaagagtcg atcacccttc 300
ctctagcctc tttttccgca tataacttggg catactcatc cgcgattcta tactcgtggg 360

ccgtggctag acccaactct tcttggtact tggcgatgat agctaacatg ttggtttctg 420
tctcgcatag acgctgagac aagctctctt tggaccttg 459

<210> 7223
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7223

cgcttgtgta atcgattaca ggctttanna attgaatcat aatgttcagt aactactggt 60
aatcgattac catccatgtg taattgatta catagtgtaa agtttaaatt caaatttgta 120
atggctgttg taaatcattt ttaccacta gtaatcgatt acatcctctg gtaatcgatt 180
accagagagt aaatcgcttg aaaaagtctt ttacttata tttctttggc aaacctgttg 240
ctatttcaat ttggaattcc cttcctaaaa tactagagat cttcttgatg ttgtatcttg 300
tattcttgga ttgttgtctt gaattaaact agagaagcac attttcataa gacatcaaat 360
catcatgac atattggcatc atcaaaacat caaatgcaaa gtatttgctt ctacaatctc 420
aaagtctttg cttctacatt accaaatact gtaatcgant acaacgca 468

<210> 7224
<211> 379
<212> DNA
<213> Glycine max

<400> 7224

agcttatata attgaactta aatgttcaat aactgctggt aatcgactac tatatatgtg 60
taatcgatta cacagtgcaa attttgaatt caaatTTTaa tagctgttgt aaataatttt 120
tggccactgg taatcgatta catcctctgg taatcgatta ccagagaata aatctcttga 180
aaaagacttt ctaattttaa tttcttggcc aaaacctttg ctacttcaat aaggaattcc 240
cttactattt aatataccct tcctatgact cttagagacta tcttgatcat ccatcttgaa 300
tatctttaat ttctttgtct tgaataaagc ttgacaagc atgtgatcct ttggcatcat 360
caaaacattc agcttgatc 379

<210> 7225
<211> 380

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7225

agcttcaagg ttcanagttg gatcaaaagc ggcttgaggg acttttccat ttcccagca 60
tcagttgagt ggcgcattcc tgttctgat gacaagaccc agactatata tgtatggttt 120
gatgctttac tagggtaagg atatgtatct tatagcttgt gcgtgctcct ctagcttccc 180
ttgactctat tctataatct tataggctct gtctatcata ctcaccgact atcatcttgt 240
ttattgttcg aaatacatag ctaaatgcat gaaagttcac attatgcatg atcatttgta 300
cagaatcacg ataaagaaca gcttggactt ctgctatttt gctgaatatt ctctattaca 360
tgtgtcgcta atcaccttcc 380

<210> 7226
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7226

agctntanaa cctgtntttg atgctaaaat ttactcaaat gacaagggtga attataagtc 60
ataaccctgt caaatccttc tcaagccctt gttaattcct caagcatcac aaatgaggca 120
tgccactttt tgtttccttt ttttttcgat tactcacata ttgtttcaat tatattatat 180
attatatata ggaaaccatt agttgagttg taagtgtaac tgtaattaag acaactcaaa 240
ttcaatcaat cttctcaaat ttaaccagc gtgtggtggt ccaagatata atacaacaca 300
gattttattc tcatggcaga agaaaaacat tttatcacac aaaaaggaag acaactctag 360
tactaactga gaaaataaaa aacgatcgct tgcttactct tagagtaatg atacatatat 420
gcatacactt aatactctta ttctacttta tctctc 456

<210> 7227
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7227

attgaaaccc gtttatctcc tgacctccag nagtgctcta gagacgacca cgaggcatgc 60
aagcttaact tagtcaactga cctatctgcc taattatcat aacaaccgag acacgangaa 120
catgcaagtg tgctacgaaa catactgatc aagctcaaat cccaattgca cacggctgcc 180
tgcaatcatt ctttaccatc agtcacgcac tacaacctct ggcaacccat caccagatac 240
catatcccta gaacacgctc ctctactcta aaatacatgc gccacacctt agctatacca 300
attaggacat tccttcctaa aaccaacag atctctcgat gtcctattct cgtattccga 360
gacgccgtct tgaataacca ctagacaacc acatctctct atatagatcc tattaccccg 420
atcatctggc ttactgaaca catcacagcc tgtatcgctt ctcaatctca acgttccgat 480
caacttcccc tatcgcacgc attacttact ccttaccccc g 521

<210> 7228
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7228

agctggcttc ctttgattnt cggcatgtct cgggacttca catatcgngc aacaaagggg 60
gccaagtatc tcgaagcggc caatcaaagg ttgtatatca tcaaataata atccccggac 120
gaaattaggg tatgacaggg tcgaagcggc ttcctatacc aatgtcacga ggagtgtggg 180
ggtcagattc ataaagaggg agttgnattg tcagtacgaa ctccctagga agatcattac 240
tgacaatggc acanatctga ataacaaaat gatgcaggat atgtgcatgg atttcaaaat 300
ctagcatcac aattccacgc cctaccgacc aaagatgaac ggagccgtgg aagcagccaa 360
taagaatatt aagaatatta ttcagaagat gacagtgtcg cacaagatt ggcattgagat 420
g 421

<210> 7229
<211> 273
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7229

atgcttatga tgatgatcaa gttgttcaag tttgtttgat gatgacacag acgatgacaa 60

aaagcccana gaaatgattt caagattgag tcaacaagtt caagatcaag aataacttcc 120
 aggttcatga gaagaaatca agaagattcc agaatcctga gaaggtctgt ttccagattc 180
 aagagaagat gaattcttga ttctcgagat gaaatctagc atacctccca gggaagtttt 240
 gacagattct tcaaaaacaa acatagcacc gct 273

<210> 7230
 <211> 131
 <212> DNA
 <213> Glycine max

<400> 7230

agctttgctg atgataatgc ttctattaca ttattatcgc tatcagatga gcctaacaga 60
 agtgtaataa cttgtcatgg atactacaca acatcggtga tttaaatcac cgacgttggt 120
 atcctatatt a 131

<210> 7231
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 7231

agcttgtaac tcggctttca tcgctttaag ccaacaacca tgttgagatg ctttagcata 60
 tgtcttatgc tcagtagatg tagaaatgga aagaacaaaa tgtctgtggg atgatgatag 120
 acgcgaataa gatagtacag aatcgagagg atgacacact atagctgaat aatcgagagg 180
 atggctcact gaagct 196

<210> 7232
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 7232

ggcttgtaag aattctaaga tcattctcct tgtctactct tcgaaaaaga tcgccatgat 60
 tatgaagaga cgactctcta tagatgttcc tgagaggaca atttagagag tgatcaaaga 120
 ctcatcggat cgatttcac tgcactatc tattgacaga tcccgatata ttaatgttga 180
 aagtcttcca cctcat 196

<210> 7233
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7233

agcttccggt cncaagatca tccnttattt aagtatttca gcctttgctt tcttgtagct 60
 taggaaaaat gccattcttc ttctttcttt cttccaaatc catttctaaa gttccaagta 120
 ctttctccat caccacatc caccattagc caccacaaac catcattggt ctccattgaa 180
 aaccacacc gagaggaacc cttcaaccga agcagaatct tcaacttgct cgcgtgtttg 240
 gtaaagaacg aaaaccctaa tctgatcttt cgttttcttt cgaggtaacc atgcgtctat 300
 gctcgtttct tgctagcttc atcttgtctt tgcacttttt ctaactctgc aaccgccatt 360
 gcatgtctta tgcttccttt gacaaacctt agagaaagag acttttgaaa cattatcctt 420
 tcatgaaatg catggtatat tcgtaaccta cacttgacc 459

<210> 7234
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7234

agctntgtca gtagaaaggt cattngaaac cgtttaaagg tccaatgcct taaacgggtcg 60
 cgaaagaact acgtatgtct gatttctctca tcacaattga ggatacgtag gagcaaaatc 120
 cccacttttg tccaacccat gagatcatta aaggccaac accttaatgt ttctcaccca 180
 aaagagattg ttcaaggtct aacgccttaa tgggtctcac ctteccaaag agatcgttca 240
 aggtccaacg ccttaatggt tctctccttt caaaagagat cgttcaaggt ccaaacgcct 300
 taacatttct cacccaaaag agatcgttca aaggccaac gccttaacgg ttctcttctt 360
 tcaaaaccga gaggtcggtt caaggccaac gtcttaaaaca aatctcaagg gctgaaaaat 420
 ngtatatttc taggataccc tacctacatt atggagccct aaata 465

<210> 7235
 <211> 400
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7235

agctcggctt ggatagatcc aagtataana aatattttga atcatatgat gagtaagtga 60
tgcttctgaa atttccttta gttcttgggt tcagtttcat atcagcttaa tctctaacaa 120
ttacagttaa ctaaagcatg ttaaaaaacc aaactcaata gaacgaatct taaggagaga 180
gagaaagtgt ttggcagatc actaaccttt tcatactcaa agtagcaagt gtggtagcct 240
gatctcatgt gaagtgaat atatagttac atctatggta gctcgtccag ctttgcggct 300
ggaaactcta tcgaaggagc taaacctgca aactaaacta atgagaatgc tgattgacaa 360
agagtcaaca attgacttgg ctaaatatcc tattgcacat 400

<210> 7236

<211> 416

<212> DNA

<213> Glycine max

<400> 7236

agcttttttt aaagcctatt aaattaaata gaccaagctt atgcttatta aaaagcctta 60
taagcctgat aggtcggcct atatatatgt atatatactt atattatttt tttgggtacc 120
aatatatact tatattattt tttaggtaca attaataattt ttttttgaaa ctagaagact 180
ttgattacac attactgctc cacaactttc attcctataa tcaagtaaga ctttaattac 240
aatttaggtg tgattcatgt gcccttttat attcctcatt atttttattg gctttcctat 300
tcctgttaac gtttcctttt cctattaggt ttacttttcc ttttaacttt tctattacgt 360
tcctattcta gagcaaagga atattaaaga gatttaaatgt gaagaaggct tttaaa 416

<210> 7237

<211> 495

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7237

agtcacttga ggcatgcaag ctagtaatgt ggtccggcta acaaagaaat cattatntnt 60
tcttgatttc aaagcttagg ttctacgaga gcattcattc tccattttct tgacaaacca 120

taactaattt ttccacagcc gcaaccttat tgttttgcta cacttaataa cacacatact 180
attctttgca catggctgct tctagctctc attccacaaa ataaacaagc actgnttttt 240
acaagaatga acattcaaca ttaatactgg actggagcaa tttactgtat actacaactc 300
acattagctt gcgttgctat taaggttcca gcaacaaaag tttatcgata aactccccc 360
atatttgaga caaatttgtc ctgatccatg agtgctctcc tacaacctaa gatagggttg 420
ttactcagta tcaatactat tcggctcgga tttcaaatta agcttaatag ggtgcaatgg 480
acattcacta ttaac 495

<210> 7238
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7238

agctngcctc anagaggtcc aggaaggaca aggcggccaa aggaactagt tccgctcctg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120
gatggtcatt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc 180
aggaggaaat agggcgccgg cggtggacat cactgggtac tcccatggcc aagtttgatc 240
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg cgtaaggggt cagtggatcc cgtctgatgc cgtccct 347

<210> 7239
<211> 384
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7239

tggettatgt aagattgtat gaatatggag aaaccatcac atagtgttac taggaggccg 60
tcagacgatt gagcacaaca ngatatata tgtcaatatg ctgcattat ctcatcaggc 120
actgatgtac acctacaact agaacttacg gacaattaat agcctatatt gaaactagaa 180
gactttgata cacattactg ctccacaagc ttccattcct ataatccagg acgacttta 240
tcacattagg tgtgatcatg ccccttata ttctcatatt ttattggcta cctatcctgt 300

aaccgttccct tttcctatta ggtctacttt tccttctaac ttttctatta cgtccctatt 360
ctagagcaaa ggaatattac agag 384

<210> 7240
<211> 51
<212> DNA
<213> Glycine max

<400> 7240

ttagaggcac ctgaggatgc aagctcgacg ccagctagcc cacgcgagca a 51

<210> 7241
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7241

agcttcaaga aaaagatggc ctcagtatat tccttatttc cagaagggaa ttccatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccggaat gcaaattttt 120
attgaggcaa tagatctaca tatttgggaa gccatagaaa tagggcctta tatacccacc 180
acaggagaaa gagttacaat agatggtagt tcatcaagtg aaagcataac tatagagaaa 240
cctatagata gatggtctga agaggataga aaacgagtac aatacaactt aaaagccaaa 300
aacataataa catctgccct gtgaatggat gagtatttca cggcttcaaa ttggaagagt 360
gctaaggaaa tgtgggacac tnttcgatta acacatgaag gaactacaga tggtaaaaga 420
tctatgataa at 432

<210> 7242
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7242

tttgaccncc gtgaanatcg ancccccttc gagnnactga ggatgctcta cagtcgacac 60
tgcattgcatg caagctagaa gctgggggat aactcgaag acattttgtc ttttaactgc 120
ctatctccct cgagcgacat ttgtatagga tgctatctcg tgtgatgcgt ctgtagacat 180

ataggatgta tgatgcatcc gttcatcatg acatcgaatg tgtgagtaca aagcatttat 240
gcttttaacg gtggcttcaa gaggcaccac ttctgattca tctgttcctg cgttgcaacta 300
atttactcac tcacatgtct tgtgctacag tccctctctt cccacattgt tatccctcgc 360
taactattat cttctctgtc ctctcgtcct tacttccgca aatttctctt ctctccttg 420
attctccttt ctgcacctca ttcttttctc tccctactcc actctccac tatccctctc 480
ttgttttccc cctctcttcc tcttctccc 509

<210> 7243
<211> 179
<212> DNA
<213> Glycine max

<400> 7243

agcttatgta ggaacaattc aagataagta tgatgtgaga attgaagttc ttccttggac 60
ttcaaatcaa gcaaacagac aaaggcatat acatacatca aaccaagtac gtgaaggaac 120
ttctgaagaa gtttaagacg gacgatgtaa agcaaattaa taccctaattg catccaacc 179

<210> 7244
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7244

agcmttcacc cttccctttt aaaagttgta tcagacacgc tcgccctgtc gagctaaccc 60
tgtccttttc tttnttgcaa aaacttaaac tatttctttc cattttatca ttttgtaaac 120
tcctatgggtg aaggacctag ggctacaagg acatcgatgt gtggtaaagg aaatttgtcc 180
tttggaactgg ctcggttana tctgatagt ctacgcacat tcgctctttt ccattcttct 240
tatggact 248

<210> 7245
<211> 129
<212> DNA
<213> Glycine max

<400> 7245

agcttgttct gggtattaaa ggagttcttg cttgttgaaa cacatagcgg ctatgatatt 60

gaaggaggag gagacaaagg tgatgttatc tatgcaattc tcttactcct tctcgaagga 120
gatttcata 129

<210> 7246
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7246

agcttgtagt gaggcttggc tacaaaaaat cattgtttnt tctataattc taaggcttag 60
attctaagag agcacaaata ctatatttat ccaaattatc tttccaatac aattagctta 120
ctcactagcc tttcacttta atttgtcttt gaccttatta caacaacaca cattttcttt 180
gattgctctt tctcttttaa cacacaactt attttttgtg agtgctgatg ctttaccttt 240
tactttacat cccaatcaac tcccccaat tcggtgtaac ttgccttgaa ctatctgctc 300
tcctagaatc taaacatggt atcttggaga tattcattca agtttacggt tcaatctttg 360
aaatgtaact tagctcacat agggtgcaaa ggatacaatt ataattcacg gtaagctctt 420
tggccaatag agttggctat acaataatgg gcgtcatcat gtgctcattc atacat 476

<210> 7247
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7247

agcttgtagg gttcacccca nattccgtcg tcatatgcta aacttgatcc catatctact 60
tgataattca atggtagcca taacctagc caaggttcat caacctocat ttctccgaga 120
atacgactcg aacacaacgt gtgcttgtca cgaagaagcc ccggtgcgtt ccattgagca 180
ttggagggct ctg 193

<210> 7248
<211> 301
<212> DNA
<213> Glycine max

<400> 7248

agctcgtatt tatttgacat gttttctttc aaatcattga caaatacgaa ctctgtacag 60
accttaatag agcattatth agacacattg ttaattctga ttgaaaaact cgcgtgthtg 120
tctctgctth tgtatatggc atgtaacatc ctaaaattct ataatatth ttgctattag 180
tcttatcata aaaattatta gtataacagt tcatcctaata taaactgatt atgatgatct 240
atctatatac atatatatat atatatatat atatatatat atatatatat tatcactgat 300
t 301

<210> 7249
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7249

agctnntgga aatgatntct atacaaaagt tagtcgtata aagtgactaa cacacttagg 60
ctataaatag aggtcatgtg tgtgcatttc ttcaactttg atcatttttag aattacgctt 120
caaagttcag acctcttttg aggacaaaat tttcgtgctc cttctcctac cttcaggctc 180
ttatccatgg attcctatgg tggtagctt cttcttgact catcttctcc ttgaagtggg 240
gtctctaatac aactttcttc cttattcatt tcgctaccat taaacttcaa gaagaaaagc 300
actccattgt tgaagaagat ccaaggccta caagttccac atggagctac attagtattg 360
ccctttctcc tacgtatcct tagatgcgat gaggaactta gacctacgta gttctttaag 420
tctgaatggg tgttggtgcta catngatttt atcttaattt taaa 464

<210> 7250
<211> 117
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7250

agcttgcgag gattgatggn gactctgtgt tgttagaaac gaggatatgg cctacgtggg 60
agtacctgag ctacagctga ggtgggcaat acgggatggg tgtttcatac actacta 117

<210> 7251
<211> 198

<212> DNA
<213> Glycine max

<400> 7251

tctagaggca tctgacgcat gcaagctatg tgaatatcac atctgatata taggggttat 60
atcctctcga tagtaccctt tgacaactaa ggatcacatt ataaataaag gatctacatc 120
tgattaagtc actgtatata agactaatct aatcagaaga tcctctcata gtatagtaga 180
aagtgatcta gtgatgat 198

<210> 7252
<211> 192
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7252

gagcttgagc atattcanac gacaataact nntactcgg atgtccgaat taatccagta 60
atatatcgag acactcgtaa ttgaaaatgg aagctctgag caaattctaa cgataataac 120
tttnttctcg gatgtcggaa tgagtcctcg tatatatcaa gacgctcaaa attgaaaaca 180
aaagctctga gc 192

<210> 7253
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7253

agcattgtga cattgtttat tgactatggc cattatggnc gaccactgtc atggngaaat 60
taccacacca ttcataggt tgtaaagct gttctatagg gtagctatca ctctattgcg 120
gatgggctat ttaccacgat cgtgatctaa tgtatagtct tcacatcttg ataatatcga 180
gcactttcca acactttcac ttaattga 208

<210> 7254
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 7254

agctngagct cgttactact gcccatagag cctctcggaa cttgttccta ctccattctt 60
cctttctagg actntatggt tctactcta acacttcaac cgtggtcagg ttgacatctt 120
tcacctcatc atactctttc ctgaccctag tgattgtcgt ctttagcttc actttcacca 180
ctcttggtgt ttttagctct actttcataa cttgcacttc ttcattttcc ttaagaatgt 240
cagcctttgt tccacttaga ctttttaact gtgggagcca agctatccct tgcattctag 300
acttcaacca cttgtgatag ccgccgatgt caccattgct acttccttta agtccttat 360
cttttcttcc cactctattc cagcctttac gaactttccg aagtatcttc agactatctt 420
cattgaagcc tcgcatgatg aaaggcatga tgacttcc 458

<210> 7255

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7255

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tatactctac ggtgcaggcc ataaaccaac atagcaagaa gcaaaaaaat aaacaaaaat 120
tatatcataa acaaaatatg gctactcgac caaaattcaa aacgaagctc cactcataat 180
tttaaagctg caagttcttt agtcaaagcc atattacttt cttttaatct aaaacactcc 240
acagtcgact tctcatgctt ctaattcaat ataaatcttt acaacgttaa tctaggctgt 300
caatagttaa cttgtcccaa ataacacaga acgctacaga gtatttcacc tctgatttca 360
tttgaagctg cgaatgatgc ttttctattc aaaacctcat tctttaagc tgtctctatc 420
tt 422

<210> 7256

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7256

agctnngatc catcatacaa ttttaactgt atcatctatt taaagcctac acaaatgttg 60

agttgcaatg aagttgtaat tgcaagttga gagatagact aagcaacaac gagttagtga 120
 tatacaaatg ctaatatatc aattatgggc aattattcat cttagtcct ttaaaagtga 180
 aaatactata atatagcaga tgtatcttgc tgtctcttaa tctatacaaa tcaaaatgat 240
 cctaactggc taattctcgc tggtttctaa actttattta cgtttgctg tgcatcaga 300
 gaggaattct gtaagttgta ctactgact 330

<210> 7257
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7257

gctntgagggc tatatatgga ccatcgacca ctaataatat tgcagatgta caagcggggtc 60
 taaagtaaag gaaagtgcta caagctactg tagaacctat cagattgtca actctctttt 120
 ggaaattttg atcgacatct gacaaggaag gatcaataac aagctactga gtggctactt 180
 cttcaagggt cactacctcc atgtanttcc tcaaagaata ttctgttga accaaatgtg 240
 aatgtcatat tctaccttaa cntagagga catcaaactt tggaatggaa aacctgtaac 300
 aaagtctgga gaaacaaagt tgatattggg acttgggtac ttgatcatga gatgcaaaag 360
 ttagagcagg aaaagctaaa tctccttaag ctctaaaagg atagcactng gtgggaaaac 420
 atcatagtta gtttgaagaa agtagaatct aaggtggagc tcttatgtct a 471

<210> 7258
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 7258

tcactgaatt tgtgatagca aacaagtgtt cctagataca tcactgtcac catcttctaa 60
 ccatagttgc aaaatgtcta cttaccata aaactactgc acctatatat tgctcctggc 120
 ggaggccaat ggagcataat gctatgaaaa ccacctgtta tgtaggtta ctacttactc 180
 tctagaggta gccctattcg tcaggagcac ct 212

<210> 7259
 <211> 411

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7259

atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 60
atatgatagg cttgaaaaga agaattataa acatacatgc acaaataaca aaacacagag 120
ttttctttgt tctcctaagt tgtaatatgt gtcaggggtgt tacacttttt atcggccaac 180
acttgctgcc tgttgattaa taaaaagtaa ttctgatcgc tccctttata tgaaaaatat 240
aattatgtca tttcttatca atagccgatg tagcgcgggc agaacaaaaa tattttgtgg 300
gaattaactt actcatttgt ggtactgcat gtaatctact taatgttaaa atttattaca 360
attaatttga ttttctagaa ctaccataa aattgggtgt acaagaaatt n 411

<210> 7260
<211> 121
<212> DNA
<213> Glycine max

<400> 7260

agcttgaacc gccagtcca atggctctgaa ggtgtgtacc gctagtcaca gttgcgggac 60
atgtgctgac caccagagag ggggtgaggct gtgccactgt cgcttctgt cgggagagga 120
t 121

<210> 7261
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7261

cgcttgntga gtgaatgaaa tggctatgaa gtgtaacggt ctagacacta acaaaaggaa 60
ccactaaatt catctcgtgg atgcattata tagaaagcca aatgtaatga agtgttccct 120
ataacatttg tggaaagagt cacatcaata tttatgaatt gccaaatgac atccaaccat 180
gatatagaat taaagttgta cactaataac caattcatta aattcattgt ctcatgctca 240
tctataacctg tctatggcgg tttgaagcan caccttacag agacttcttg gcactgaata 300

<210> 7262
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7262

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agctntatga ctctcctacg agagtgc aaa aacaacagag aaatttattt aagttgagtt 60
tacatagtta ttttgagaac aaagcttctt attctacact tagtacaaaa gttcaaaatt 120
tgattttttg taccctgaaa ctgaaatcac tttgatttca gagtgcagaaa agaaaaagtc 180
tcataacaag tcctagcttc cttagttaat cagttcccg c atctaagtta atgaatttct 240
ttataattcc catcatttct cccccaggga aacgccccag acatcccttt gcagctgccca 300
cttcattcag ctcataaacc gaatcaccac tataagcttc acagcatttg tctctctctt 360
ctgtttccag atcatcaagc aagtcttcac ccgacttaac acttggaata ggaaatgggt 420
caagagaaga tttggaaata gtgga 445
```

<210> 7263
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 7263

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agctctacat cagattttag taatgaccca ctattctaga attaaaataa cttaatgccca 60
ttaacctatg taattaaaag aacttaatgt ctgagtgtta ctgaaattgt ggctacaaaa 120
agtcaccctc aatagccaac atgtcagcca ccatttgatc tcccataacg ctgatgccta 180
ggatgacaat tgggtcctta ttacatactt gac 213
```

<210> 7264
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7264

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tctgagtcac ctgaggcatg caagctgggt gactcttacc tgagtcagng gtcacctacca 60
ctttatttca ttaaacagca cctcaaatc ctgtcaaaat tctggcctta ttttggtatc 120
tgtgtaacat tactcatgtt gaaattactg ttaagtaa at tatttgatag tgtacaattt 180
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tagggtaacc agctcaattc taagtctcta tcaggaatag aaataaaagc aagtcattga 240
tgaataatcc ttatccttac tactctaaac atgacagcaa cacaagacaa gattcattga 300
ccactacttt tactagaaat caaagccttg tattctggag gtacaaaagc cgaaaaatca 360
atgcttcata ttaagttttt tgctgtcacc accaagggtg gaataacatc tactcatgaa 420
tataattaaa ataatgaata agtaacagcc aaaattagtg gagcacttac atgta 475

<210> 7265
<211> 195
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7265

agctttagc anatgcaaac ggcaataacg ttttattcgg atgttcgatt gagtcacgtt 60
atacatcgaa acgctcgaaa ttgaaaacag aagctctgtg caaattttaa cgacaatata 120
ttttaactcg gatgtccgat tgagtccgc tatatatcat gacactcgaa actgagaata 180
aaagctgtga acatc 195

<210> 7266
<211> 304
<212> DNA
<213> Glycine max

<400> 7266

atgcttttag atgtcacta aagtatgaaa ctttcagtac tttagttgat gacctactca 60
taggatacgg acataatctc tctctgacat ataatgtggc atatagatct ccagtgtgag 120
ccatgttcac taacacgatg agactgctca tagcatgacg tgtatgcacc tgttactgat 180
agctaactac gatgtatata aatcaagtca ctgtccitaa ttgataatta catacatatg 240
ccttccgcat aacacagatc agtactatcc acacaaacct ctgatctagt catggactga 300
tcca 304

<210> 7267
<211> 475
<212> DNA
<213> Glycine max

<400> 7267

agcttgtagg cctaggatct tttcatcaa tggattcctt tgcttcttgg aaaatgaatg 60
gcagcggaat ggagaaggaa gagagagaga gagaggagac gccacttcaa ggagaagatg 120
agtctagaag aagctcacca ccataagagg ccatggataa gagcttgggg gaagaaggag 180
atgaatgaag ggagagggag agaagagcac tgaaatttgt gctccaaatg agctttgaaa 240
tctgaatttt aatattcaaa tgatcaaagt tgaaaaaaat gcacacacat gacctctatt 300
tatagcctaa gtgtcacaca aaattggagg gaaattcaaa tttcacttga attggtggag 360
ccaaactttg gagccaaaat ttcactaatt atgattagtg aattctagtt atggttcagc 420
ccactaatcc aagatcaatt ccaagattct ccactaagtg tgcttaggtg tcatg 475

<210> 7268

<211> 180

<212> DNA

<213> Glycine max

<400> 7268

agcttctatt ctgaatttcg agcgtctcga tatatttcgg gagacaatcg gacattctag 60
ttacaagtta tcggcgtcag ctatagctca gtgcttatat tgttaatatt gaacgtcttg 120
atatacctcg agagaccatt cgtcagccga tgaaaaatgt cctgtcgaat gcctatgctc 180

<210> 7269

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7269

agctctaaca tcagaccact tccattgtgc tggatctact tcacatggac tcgaaggggc 60
ctatgccagt tgaaagccat ggaggaaaga ggcatgccta tgctgatgtg gatgattcct 120
cgagatatac ctgggtcaac tgtatcagat aaaaatcaca catcctngaa gtattcaatg 180
agctgagtct aagacttcac ctagacatag actgtgtcat caagagactc atgagtgacc 240
atggcaaaga gtacgaaaac agattgttta ctgaattctg ctcatttgaa cgcactcactc 300
atgagttgta tgagccatta caccacatca gagcgacata tatg 344

<210> 7270
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7270

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agctntaatg gtcttgatac aattaaagaa gaatagaaca atccaatcat ggagagagag 60
agagagtaga gagagaaaca gtgggtggga gagagttagg actaggaaag agaggagagc 120
tagagtcaga tttcgagagt cagagggttc ccatctgacc atcgaagggt tagccacagg 180
acagcgtcaa tcctacacgc gagcgaactg gagagaccat aaggacgtta tatcccttta 240
ctttacgagg ttcccgggaag acgcaacagc aaaggatttg tggttccatt ttaaacagca 300
aggagacgtg agagagggtt tcataccagc ganaagaaac aaccaaggaa ggagatatgg 360
ttttgtgagg tataaggggg tgagagatgt gcatcaactt cagcagcatt tggacaatat 420
gctcttcgga ggaatgaaga tgaatg 446
```

<210> 7271
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7271

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agctntatgc anantcaaac gacaataact ttttattcgg atgtctgact gagccccgca 60
atatatcaag acgctcgaca ttgaatgttg aacctatgag ccaatgtaca cgacaataac 120
tatttaatcg gatgtttgat tgagtcctgt attatattga gagcgttgaa attgaatgta 180
gaagcttgag gcacattcaa acgacattac ctctctactc ggatgtctaa ttgagtcctg 240
taatatatcg atactctcga aattgaatgt tgaacctatg agccaattta aacgacaata 300
acttntctac tcgtgatgtc tgattgagtc ccataatata tcatgacgct cgatattgaa 360
t 361
```

<210> 7272
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 7272

cgctntcaac aagagtcttc acatataacc atcatgaagc agataactaa cagaactacc 60
catcatatct gccataatct catacccacg aaattttaata gagaaagaag tccacccaaa 120
cctgaaatct cgaagtccca ctctgtatata cgcacattac gactccgaaa atgtctctct 180
tttacgattt ggggcagaaa tgatggctca aggggtgaag cttgtctgga gcttcaatgg 240
agaatgaagg agaagagaat ggctacgtga gggagagaga gagctgtctg aatagtgtgg 300
gggctgactg aagagagaga aaagctt 327

<210> 7273

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7273

agcttggaga ggatgcttca atggaggaaa agaaagagag agatagagaa naagagaggg 60
gagcacgaaa ttgaaggagg aaaaggggaa gagaagttga actttgagtt gtgtctcaca 120
agactctcat tcatcaaagt taaaaaaagt gttacacatg cttctatttta tagcctaggt 180
agcttccttg agaaacttcc ttgagaagct ttcttgagaa acttccttga gaagcttctt 240
tgagaagctt ccttgagaag ctagagctta gctacacaca cccctctaata aactaagctc 300
acctccttga gaagtttctt tgagaagatt cctagagaag ttagagctta actacacacc 360
cctctctaata agctaagctc acctccttga gatgagaagc tagagcttag ctacacaccc 420
ccta 424

<210> 7274

<211> 404

<212> DNA

<213> Glycine max

<400> 7274

agcttttcga ttcattctat gtaccgtag tgggtcacat tgtgtttcgc gcatttatat 60
tctcgttttg ttactatctt ataccctcct gttgacatgc ttaagccatt ttgcttaagt 120
catttctcgc ttaacttaaa aataaaataa atttccatcg aacgtttgaa ttatattatc 180
cgtaaacttc ggttaaaatc aattccgacc gttcgggtcat gccgttacca cgtttgaaat 240

caagaagagg taaaaaataa tataatatc aaaaaattat ctctttagtg aaataaagcg 300
 gaaaatcaat cggacgtttc ctcttggga ttctcactc ttaatcgaat tgactaatga 360
 ctaaagtga actaatgtta taacttactc tcttagtata gctc 404

<210> 7275
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7275

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 caagttccag agagttttga gagattatgc tgtgtgaaga tttgcagaga ccaaagcttg 120
 aagcaagagt cggtttgaga gcttgagatg agtttgtgag tgattgtgag atcctagagg 180
 tgaaggagac atgctcacca cttgtatttt tgcaatcttt catcttgttc ttctctttgt 240
 tgtaaagaag gcttcctggg atggaaagct aaatcctttg ttggatcttc tctgtaggta 300
 cctgatgtaa atatattttt atctatttaa taattntttg tgtgttctct gtgctatctg 360
 cttttcactc cagtatgcct ttaccttgat cacgtagatg catgctctgt tagggtcatt 420
 caacagtgga aactgggtcta actctaaagt ccttga 456

<210> 7276
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7276

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 gagttttatt taatgtgcca ctcaacaaaa taaaaataaa ataaacagcg caaaaaaat 120
 ttcatcgact agaaaaatgc tgaaactagc cttagcctat actaatttaa taaatttagt 180
 atcggcttag cctacattaa aagaaaaaac ttctcagtc ttacttgact aatataatta 240
 ttaatgctta ttgcttgacc gttgagagac attcacaaaa gaaattataa tgaatagaga 300
 tagagtacag gcctatgtaa ttaaaaacat gaacatatng gtattttntc tggtaaggta 360
 cagctcatcc tcgtcttctc ccataatat aaataagtat taagtactga tgaacagcat 420

gtgtgattac tactcaatta atgtacgcat aagttcaact atagtgatc

469

<210> 7277

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7277

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gcgactgggc cctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120
cgcgaaatth gttccggcca tactcttcct tgcgagccct cttggtttct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgt aaccggcaca ctcttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaacttg 360
cgagccaatc taaacctcgt atgcgaactc tcagtcattc gtggtaccca ccaatgatgc 420
cattacgaat gcctctaagc tcttgatctt tccttaacgg ggtntcccat gccttatgga 480
t 481

<210> 7278

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7278

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tttatacccc ctgttgacgt gcttaaacca tcctacttaa gtcattcttc gcttaactta 120
aaaataaaat aaatttccac cgaacgtttg aattgtatta tccgntaact tcggttaaaa 180
tgaatttcga ccgttcggtc gtgccgtaac cacgttggaa atcaaaaaag aggctaaaaa 240
taatataata atcaaaaaaa catcttttag taaaataaag cggaatatca atctgacgtt 300
ttctctttgg gatttctcat tcttaatcca attgagtaat aac 343

<210> 7279

<211> 252

<212> DNA
 <213> Glycine max
 <400> 7279

aatctgatgt ctctatgtta cacactttgt attatatata ctagtattta gcagcaatta 60
 cttgggatca tcacatctcc acctcccaat attaatacatt cttattataa tatcacatga 120
 gaagacgtta taggctgatt cactgctga catacatgac atattgaacg tacgctcgtc 180
 atcgtattgg ggagacgtac aacaattgac gctctgttac aactaatcct gttcgtgaca 240
 cgattgtaca aa 252

<210> 7280
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7280

tactcaagcc ttctccctat nttgctataa atagggggag aagtgaataa gataatgggt 60
 cagcccctta ggcacttctc tctctctcga aattgctgag gaaaattatt tccgtgaaga 120
 aaatccaagc cgaggcgctt tcgtaacgtt tccgtgagaa attgcacgaa gattctcggc 180
 cgttcttcaa gattcatcgt tcgttcttcg ttttcttcag ttttcaacgg gtaagtacct 240
 caaaccaagc ttttcaattc attctatgta cccgtggtgg tccacatttt ggttcatgta 300
 tttgtattct cgttgtcatt tactttctat accccctttt gacgtgctta agccatttat 360
 ttaagtcatt tctcgcttaa tctaaaaata agataaatta ctaccgatcg tttgaattgt 420
 atcatccgcy aatttcgggt aaaatg 446

<210> 7281
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7281

aatactcaag ccttggatag aggtattaat taanattctt aaaaatctat ccactttaaa 60
 taaatagaag tgaagtaaca tggatttgtg gtgggtcgga caacgaatta aattgtaacc 120
 cccaacatta aaatgtaatg tgtcaaatg aaaatgtgtt tctaattcta ttagtgtaat 180

gtgtttcggg gtttgtaacc cccaacatat taaattgtta atatnttatt aaaagcacta 240
aaggaaataa cgcagtagca caccttccct gattgtcaaa ttattttttt agtttttaat 300
atatatatat atatatatat atatatatat atatatatat gtgtgtgtgt gtgtgtgtgt 360
gtgtgtgtgt gtgtgtgccc atcgatccct aacaaaattt ataccttact caccgcgtcc 420
cagctggaca atcgatctt aaacttacct tcgcactcac ccattctcta tatattcca 479

<210> 7282
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7282

aaggaaatga tcaaaatgat aacagtatat atgttctggc agcatacaca acgccacaca 60
gaaacataga acactacctg ctgaggatgc aatccactcc ctacttacag tagacactca 120
gagagacatt ctttctgctg ccagttctag tgctacaatc cacatagaac aatatctgaa 180
ccatattctt atccatattc ttatcacaca gtcctatcag tagtcatagg ggctaacata 240
gaaaagtcca caacatggaa gttcactttt aacaagagac aaataagaga gcaaaaaaaaa 300
tcacaaataa caaatggctc actactgtac ctgcttaaac acatacaatc attccaaagt 360
tagatacata atacattatc ttaaagcatc aagagaaact tacgatacac ttgaanaaga 420
taaataagtt cattcccagt tgacaaaaca atgtct 456

<210> 7283
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7283

atatattatt tagacactnn anaacacaac taaatttttg atttctctnc atctttctct 60
ttgtatatgt tactaatttt ctatccacca catatccatc atatttatat tcttccccta 120
ctatttcttt atcttactgg gtgccaaaaa tagcatataa gatgtacaca aataattttt 180
gtaagcttaa actacagatg aaaaatccta cctagtcacc tacttgccat caccatattt 240
tagtccctgc accttgatag tttgattaaa gataaaaaaa tgcaacccat atatgatatt 300

tggaggccat gcatgttttg tcaaacatat aaaccgtgaa atttgactca catgttggct 360
 cgcctaacct tetaatttct aatccatgct catgaatcat gatataatgg attaagctag 420
 cctagtgtgta catacaccga tg 442

<210> 7284
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7284

ttaggctggt caattgcttc agattgctgc acaaaagggc aaatgtctgt gtgggtggctg 60
 gtagaggagc ataaaccaca gaatttgggtg acagggtgcaa atttttgatt catggccagt 120
 tgggttaccg ggttaactaa ggcattctagt ttaccttcaa gcttcttagt ctcagctgat 180
 gaagatgaat tcatggctac ttcattgcatt cctctaataga caatagcatc atttctagca 240
 ctaaattgct aggagtttga agccatcttc taaattaaat ttcaggcttc agtanggttc 300
 atgtctccaa aggctccacc actggaaaca tctatcatac ttcgctccat gttactgagt 360
 ccttcataa aatattggag aagaagctgc tcagaaatct ggtgggtgagg gcaactggca 420
 catagtttct tacaatctct ccagtattca tat 453

<210> 7285
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 7285

tatcgagacg ctcgcaattg aataccgaag acgctaagca aattccaacg acaagaactt 60
 cttactcgga tgtctgattg agtccctca tatatcgaaa agctccaatg tgaatgtcga 120
 atctctgac aaatttaaac aacaataact atttacttcg atgtctgatt gaaggccctc 180
 atatattaaa atgctcgaaa tgg 203

<210> 7286
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 7286

cttgtaaata tatgaattcc atgaatntaa aatgacacan aaggatgcc aagtatgaac 60
aatctataaa atatgaattc cattaattta aaatcacaca aaaatatgaa ttccatcaat 120
tccatgaatt taaaatccag aggtatagaa gaaggaactg agtttcttct tgtcgactat 180
gaatagaaga agccatccaa accttgtttt gtctaagctc tagtctcaga ttttctatat 240
caattctacc tttttccttg actcctaaat cttctattac taaatgaaaa gcagtgatga 300
gacaagatta gcacagaggt tgttttaatc atttatcagt actgagtgtg gcaaagggtg 360
tacctgtggc ttgngttcca aaaagctttg cttgctagca gttgttttca tttctagcat 420
cactttggtt gtaggtnta tgctangcac aagtgttctt ggatagatat t 471

<210> 7287
<211> 456
<212> DNA
<213> Glycine max

<400> 7287

aagcttgagt cgaggaagtg tagaaaggtg aaacttcttg ctgttattct ttgtttccag 60
agcggtagct ggagatatgt cgcggcggtg aggagacctt gaggacgtca ggtgggggtgc 120
tattgcccaa aaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagtgag 180
aacctgtgat gtacctaaac aggcgagctc ctggcagtc acagataaaa ggaacaaaga 240
ccacaaagca aggaggcttg tgggtggctgg ccagctgtga aacttgattg atatgtgaga 300
tatggctctt ggtaatcgac taccaagggt gggtaatcga ttacaaggct taataatgaa 360
gacaggaggc taagatggtc tctggtaatc gattaccaac ggggtgtaatc gattaccagg 420
cttgaaaacg aagtcaggaa actaaggag cctctg 456

<210> 7288
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7288

togtgaggaa tgccttggtc ttagatagca tgaattatcc cttcgatnat atgtatgcgt 60

gtaaatatgt agcatgaaat gccttgcaaa atgttgaatg aaatgccttg caaaatgttg 120
aataaaatgc cttgcaaaat atgaatatat atagcatgaa gtgccttaca aagtgtcttg 180
ataggtagcg taaaagtatt tttcaaaata tgtgtatgtg tgagtaggta gcaaaagaag 240
ccttccaata aaaaaatgtg tgtatatata taggatgtag catgaagagg tttgtcaaaa 300
aaatatgtac atggatgtgt gtcataaaat gcctctcacc aaactattat gtgtgcaaat 360
gcatgtgtca taaaagaaca cggccccaat atgattatgt tataaagagc atgttgacac 420
tcgcgccata tg 432

<210> 7289
<211> 212
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7289

atgagtcatg acaacagctt tcagaattgc cccatgtatg gtgttgcttg tcaatgttag 60
gattcaacaa gcgattcttc tcanatttca gccagcccat atcaattaga cttcacactt 120
tatgcttcgg ggtcatacaa tgctcaatgg aatgccccng ggctcctnca tgataagcac 180
acgttgcggt tgagtcgtat ccttagaaaa at 212

<210> 7290
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7290

acattgatgt ttgtatttat gggaggaggt tgtacgcat ttttgtttta agagtagtgt 60
ccactggta aaactaactt tccaaatttt tgccttcgca ggaaatggc ccgaggaagc 120
ttgcctcaaa gaggtccagg aaggacaagg cagccgaagg aactagttcc gctccggagt 180
atgacagtca ccgcttttagg agcactgtac accagcagcg cttcgaggcc atcaagggat 240
ggtcgtttct ccgggagcga cgcgtccagc tcanggaaga cgagtatact aatttccagg 300
aggaaatagg gcgccggcgg tgggcatcac tggttactcc catggccaag tttgatccag 360
aaatagtcct tgagttntat gccaatgctt ggccaacaga ggagggcgtg cgtgacatga 420

<210> 7291
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 7291

tactcaagct tagcagttta ttcactcttt tagtattggt gaatcatttt attcattcaa 60
 acttttggtt gtgaaagtca agagtgaatt agtggtatgg aatacttggg tggctcttaga 120
 ttcaaaagga gtggcaggac aaaatacttg tttgtaatta aagttttgat tagtagaatt 180
 ctttacagtc acataaagga gaattgaaca ttgctttggt taagtgaact agtataaacc 240
 aagtgttacc acatctttct taattgggtt tattgagtat tcttttaagc ttatcttgac 300
 accgtttctc accaagtgtt tacctgaaaa acctttgtgg aaatattact ttattattac 360
 tggacgacca aacttggttt tcatcaaact tgttttgctt attagtggat gactccattg 420
 catctatctt tttggacgtg gaataaaagc ctctatttga aaaatggt 468

<210> 7292
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7292

tactcagctt ctaaggaagc tacctagtct ataaatagaa gcatttgtaa cacttggtgt 60
 aactttgatg aatgaaagtc ttatgagaca cactccaaag ttccacttct cccctctttt 120
 tattccttca atttcgtgct cccctcttct ctctttcttt ttctccatta aagcatcctc 180
 ttcaagcttc ttatccaagg cacattcttg gtgggtgaagc tccttcttcc atggcttatt 240
 ccctagtgga tgggtgcctcc cctctcttct tctcctttgc cttccgctgc ctccatagaa 300
 gctccacaag caagcttcca tcaagtggta tcaaagcaca agagcttcta gtaggtgctc 360
 cttanacctt cattaatgct ttgctttacc ttctcacatg tcttgtgcta aatgttggtta 420
 acatgattct ttagagtttc caccgattaa acttgctata gaagctagat ttgattntct 480
 at 482

<210> 7293
 <211> 454

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7293

ctacacaaat ntaattccta aatgacttta tctctacaga gctataaagg ttcataattta 60
ttaatataat tcaaacattt catgcatgct ttcagttgtg tgttttagatc aatgtttctca 120
tataatagtc tttaaactta caaattttgt atcttgtctg taggggtttg gatcccttag 180
cccctctctt cttttcactg agtgatatgc cttcaaattt atcagtgaga tcctaaatca 240
tattcaatct gtaatagttt aatgtgtgta tatatgtgtg caactctttt attactacct 300
ctntgttttt gctcttcac ctttcaacce atccatttaa tgttgcatgt actctgcctt 360
aaattggatt atgcaatatg atatttatct atgggtggata ttgatatgga gtctcttacc 420
taccatatag aanacaaatg tctccataat ttga 454

<210> 7294
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7294

tactcaagct tgtccaanat gcaaacaata ataattgtca aacggatatc ctattgagta 60
ttgtaatata tcgagacgct tgtaatggaa aacagaagct cgtagaaaat gcaaactgca 120
ataactttta actcggatga tcgattgagt cccgtaatat atcgagacac tcgaaattga 180
aagcagaagc tctgagcaaa ttctaacgac aataactttt gactcggata tccgattgag 240
tcatttaata attcgagacg ctcaaaattg aatacagaag ctctatgcaa attcaaattga 300
cagtaacttt cgactcggat gtccgattga gtcattttat gaattgagac gtcaaaatt 360
gaatgcacga gctcttacca gatccaaatg acaataactt tntactcgga tgtacgattg 420
agtgccgtaa tatatctaga cgctcaatat tgaaa 455

<210> 7295
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 7295

tactcaagct cttatccatg gcttcctatg gtgggtgagct tcttctttac tttctttctcc 60
ttaaagtggc gtctccaatc atcattcttc catctccatt ccgctgtcat taatcttcaa 120
gaagcaaagg actccattga tgaagaagat ccaaggccta caagctccac aaggagctac 180
atcatttttg gtttgatata tagactttta gtccactatt actatttgtgt agggtagact 240
tgtcctttgc aacaattaat aagtataaat taacataaat atctcatcat caatataata 300
ttctcaacaa caacatgata aattacaaac aaaaaattat agaccaaccc acccatcata 360
aatatgtatg actttaccat tataacaatt ntatacttca tgtttaaggg tatcaaaacc 420
cctcataagt ctttgggtac tatctccttc atcttttatt atgtgcatat gaccttcat 479

<210> 7296

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7296

tgatgctnga gtgtccacat ggggtgcatgc atgaccagtt ntgcataaaa tttcctaate 60
atcattgttg catgtgtttc atggaaataa tgtaggacat cccctttatc cccgaaccgc 120
tggccaaatc ctgacatgta tcatgaccag ccgttctaca agccttgagc caaaatccta 180
actcaccata atccttacc cgggaagaaa acacaaagag aaggaaaatt cccaatccaa 240
gaaagggaga agacacaaaa aaaggaagag agaattccca atccaagaaa gggagaagac 300
acaaaacaga aagaaaattc ccgatgaaag agtgggagaa agcaaaataa aaaaagaaag 360
aaaaattctc gatcaaggat cggaagaaaa cagaagaaac atgcagaaag gtcttttagac 420
cagacaatat ctgaacaata c 441

<210> 7297

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7297

cggattcttt ttactctgga aacctcttct ttctatgtga acctcaaccc aatctctggg 60

ttggtaaaca acctttttgc gacccttggt tgcttatcta gcatagctct cattcctctt 120
 ttcaatttgg gccttgactc tttcatggag ctttttctca cagtccgctt tggcttgtag 180
 ttcctcatgc ttaaaaactg aaatattagg cattggcaac aaatcaagag gagttagtgg 240
 attgaaacca taaataacct caaaaggaga acaactagtg gtgctatgta tagccctatt 300
 ataagaaaat tcaatatgag gtaagcaaac ttcctaattn ttaagattct ttttcaaaat 360
 ggtccttagc aagataccca aagtcctatt catgacctc 399

<210> 7298
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7298

ttagctaaga tgcctgagac atgtcgaatg atggatgatg gtcatatgat gaatggacaa 60
 cgttgatgat tcgacaatgg acttatgact tgtgactgca accatgtaag gcttttatga 120
 gtttcatatg aattattttg gtggtgtgct gacatttgcc aatggatctc aatcccttga 180
 ggatttagga tactttcatc taaataaagc taatacagga ccactcaacc aaacgggata 240
 ctcaaggcag atactgttca actttcatgt ctttttagtt ttgccatcta tatgtgcaaa 300
 tttatcactg ctacaaactc agaaagtcag caggctgatg catgaaggaa acatacattg 360
 tttattcaca caaccagaaa atcaaaatga tacaagagtt ttatgtgatg aagatagtat 420
 gcataattag aaatctgtct cctaaccctg ctctntatnt tattccatat agatattatt 480
 a 481

<210> 7299
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7299

cttttttata cctaagatgtt ttttgttatg gttttcttca tctgtttatg tgtgtatata 60
 ttatatagaa actttaagat gattcaaatt tcttggttta gcatctacta cggtgcccat 120
 agacatgatg tagaaaaatc atcattctac atcgggttatt agaacaaccg atgtagaatg 180

gtttatgata ctattacaat tttggcagca cgtgatgtag aaagtatgac attctgcatc 240
 ggttataggg acaactgatg tagaatgggt tagaaagatt aacattctac aacgggttcgg 300
 cgtaataaac cgatgtagaa tgttcactat tctacgacgg ctnttacaag acacccatct 360
 tcgaatgtgt ggtattctac atcgggtcaga taatcat 397

<210> 7300
 <211> 575
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7300

ccacaccgtt ctgcatgact gccgcgatat ttcggtggcga attaccggcg ctctacgcct 60
 gcacaatatg cctgctaact atcgcttcgt cacntttccg gccctgannn nnaaaccgac 120
 ggctcactgt cacagattgc acccaacaat accgaactct tttcttctct aggctatcag 180
 aagccctccc tggaatgttg gcatatcaag agctatccgc gcatgtcttg ttaggaagca 240
 ctcccctcac tctctactat tgaattgact cgcaacctga cctttggcgg ggggtgtgaca 300
 aggcctatcg aatggggcaa cggagcatct gccgatgaag gaaaatgtgc ggagtcacca 360
 tcagcgttta tgtgacgata acgtcctacc aaccaagatg gaacaggccg agggtttgcg 420
 tgtctcgaaa atcaagatac tacagttgtc gtcgcccagg aggtattaac accatacaca 480
 cccgacacaa gcaatgcaga tacaccaaag tgtataatat gactgaacac atacgttcct 540
 ggtggctgat ttacatcctg attacaccta cggcc 575

<210> 7301
 <211> 590
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7301

ccacagctcg ccgcccagaca cccgtaagtt tgcggacgga taactagttg tgacacacct 60
 ccgcgcgctc gctnntcgcg ccgactatgc gctcgtaccg ctctcccngc cngannnnnn 120
 agcactctac gcgcagggtg gggagacgaa cgccaagcag gcccaatata ctatgatgat 180
 gtgacgcaca cagaggacca gagtccacct agccctactg accaccaatg agggacatcc 240

caaagggatg aaccaccg cttgacaac cacagaacac tgtataccta tacagctgga 300
 aaggcactat aagtgcgcct acgacaaaaa gtagcaattg cggcaggcgc ctagccaggt 360
 ctgatcgaga tagctataat gcaacgatct tgccatca gccagtacca cgctgaacat 420
 gcaaatccat acgcacgagt acgccttgta ctgcaccgct acaagaagga cgacggccct 480
 gccagtacaa cccctgagga cacctactac ggggtgctga cgcaatcgat gcgcacagaa 540
 aggacaacga tctgtagctc caccaaacta gagggatggc acccagcca 590

<210> 7302
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 7302

gcttccttga gaagctagag cttagctaca caccatata atagcttagc tcaccccat 60
 gaaaaaaaa catgaaaata caaaaaaaaa atcgactact aaagactact caaatgccc 120
 tgaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg cccaaaagaa 180
 gaaaacaacc tattctacta tttaaaaaa agagtggacc caaccttggc ccatgggctc 240
 aaaaatctac cctaagggtc atgagaaccc taaggccttc tttatcaact ctagccta 300
 cctcttgag cctcttgctc atggctctgg taactggctc tttcctaggg aggattgcat 360
 catccctcc ccttgaaga ggatttgacc tcaaactctgt tggttcctcc tctctatat 420
 cagctccacc tgcaaaagga attagatcag aaatattaaa agtgggtgcta acctcact 480

<210> 7303
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 7303

aacacgacat ggagactatc tagcatagct aatagggaag acaacaacta aacattccca 60
 gatggtaagc gtgcaattat aaatcccaat tccactgcag tacatgatca caattcctat 120
 taactgctat tggcagtaac caagttcata aagaacagtc cacaactcaa tgcggcgga 180
 tctgcccga atatccctaa atcgacagcc atgcgaccac aatctaaaac cttggtagta 240
 acataagcat ggggccaaat acatgaataa gagaggctag ttttacttta cccctgagca 300

aatatgcgac cagcctcaag agcattgtga ccaacttcac tattacccat gtcattttct 360
gttggaaagt ctacagcggg accatgagcc ctaaccaatc tccatcgt 408

<210> 7304
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7304

tactcagctt gtctaccatc gaactcgggt ntagacgtga cgcattaaat gtaagtttct 60
tcagggtggc tttggcatca catttaaact tgaaccattg tcgatgagta ccttanggat 120
gacatgggtcc atgcatctga cagacacatg tagagctttg ttatgctctc tcccctcaac 180
tggaatctct tcttccgcga acgcgatata gttatttgga gttatgtgat taacaatgcc 240
ttcaaaaccc tcgactaaga tgcctgtgtc tacgtggggt tcggtgagga cctttaccaa 300
tagtgcacga tgaggctcgg agtttatgag caattcgagc aaagagatcc ttgttggggg 360
tttattcaat tgctcaacta cntaaagtc actctgttgg atgagacgaa cgaactcatg 420
agcctcttcc aaggtcacca cctttccttg aagaccttct ttctt 465

<210> 7305
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7305

tactcaagct tctcatgctg agtaggaccc cagtagtacc cnttcaatcc cactacattg 60
ggatgcctga tgtttgcaat ttttttagcc tctttggtta attcttttct ctttgttgcc 120
attccttctc ttagccactt cactctcaat aacaaacat gctccagagt tgccttgtaa 180
gatgtaccat gactgcttct ccccaaaact tcagctgggg ctccagacag ctctcatgt 240
gtcaatgtta ttgcatcatc aagaaaataa agttctccag tcaatttatc tgctgatctt 300
gcatatagtc ttgcatgatt tctacagaa actgaatcac tagatcctgg tgatgaaaag 360
tggtattttt ttgatgggga gaaccttgtt gcagctgcca ttttttcatc atggctgata 420
atctcagatg acgaaccttt ctgtgaggtc acaaaatcct cggctgatac 470

<210> 7306
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7306

tactcaagct tgtatctgtg gattcacttt cgatctcaac tataaccataa ggtataacat 60
 tattcaccac aaaaggacca atccactttg acctcaactt accactcatg agtccgagcc 120
 tagagttata caataaattt ttttgtccaa ccacaaagtt cttcttagct atcaagctgt 180
 catggaactt cttggtcttc tcctagtaga atttggaatt ctcataggct tctaaacgga 240
 tctcatctag ctcaacttagt tgcaacttcc tttcctctcc agcctgggtcc ataaagaagt 300
 tgcaagtctt tacagcccag taggctttgt actctatctc tacaggaaga tggcatgtct 360
 tgccaaagac aacccgataa ggagacgttc ctatgggtgc tntgtacgca gtcctatgcg 420
 cccaanaagc atcatct 437

<210> 7307
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 7307

tcaagctgtc gacatcgctc gcttatgaat tactcttttg gtttttttag aggaaacctt 60
 caatcctaga acgcaatgtg gcggacaaaa gtggccaatt aacttgaatg accattattg 120
 tcaatgcaca aagtattctg ctttttacta tccatgttca cacattattg ctgttcatgg 180
 ttacgtgagc atgaattatt atcaatatgt agacgttgct tacacatatg agcatatcct 240
 taaagcttat tccgagcaat ggcggtctct tgggaatgaa gcggctattc ctccttatca 300
 tgagccatgg acacttatac catatccaag tacaattcg 339

<210> 7308
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7308

ngatatgtaa ttatgtcttt tcaagaatga cctttatcag ttttacaatt ggcggcaatt 60
 tgaattctaa ggttaaattt gttgtgatga agggttcaac actaatgaaa cctactgcta 120
 gtctgttggc taagcaaaat cagcccccac caattgttag ctcaagggtga ttattggaga 180
 aacttgtcct ttgtcatggt tcaaggcatg aattattagt gaaaatcaaa cagtcttgca 240
 acgcttgatt agttggcaaa cattttttga attgaatcat gtcactgcat tctaccataa 300
 gatatttggt tgctccgcat ggtgcattga tataaatgct ttctttcttg gatggttact 360
 ctgttcttta tgaaatcgtg aattgtatta agtaggattg ccagagtatt actgcattta 420
 ttccctactt ttctctttgt gctatgatgt ttatggttg 459

<210> 7309
 <211> 323
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7309

cngngtgatgt tgcgcgctact gatggatacc atgatgtggt tgctgggctt tgacccacgc 60
 ggggtgttgaa gagacagcat gggcatctcc cttcttactt tatgaccctg cagccccgat 120
 tcttttggca ttcgcgtttg tggaggaaac gttatccaac ttgctactt tcaaggctac 180
 ctcgattcta tactcggcaa acaccaaagc cgctaagctg gactgcatgt cacctactag 240
 cttctcatag cttaacactg gcagcaggtc actcatatgg tgatcatctc tctctcaaca 300
 tgggaggagc tcttgtgccc ccg 323

<210> 7310
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7310

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 tgttgcgagt atgtttaact tgagggtaaa tctaaacacg ctcatgttaa aactttgaga 180
 aaacaaataa atttagtta gtcaatttga gtatttggtt ttttggttaa attattttta 240

atgtgctaaa ataatgtttg ttataccaat ttttgttttt taaaattttt attttgaaca 300
aaataactaa aagggtttaat ataaattcag ttataaataa tttttgtgtc atgcagaaga 360
gatgttttga taaattattt atatagtcaa tatttttgaa tatataacta ttaatatattt 420
atatgaaaat taatatatat ntattaaatt attcatgttg ac 462

<210> 7311
<211> 466
<212> DNA
<213> Glycine max

<400> 7311

aagcttttagc agcaggtatt aataatccct tggaattcgg ccaacttgtc ttactaacga 60
acaaagcaca ggggaattcgt gaatagatta tgaaaattga aaaagtcgta ccaagaaaaa 120
ataataaaaa taaatcgcgt gacatggcaa aaaaataatc ctaaattcctg aaatgaatta 180
acggaaacga tgagtttaat tcccataaaa gcaagttctc gtaagtaaag gacaagttaa 240
ttacatatt acatgttaat gtaaaaaaaaa aaaaaagct ggagggagaa aagcagacca 300
atgcggcagc gaattattat tcattcattt ataaatagct agagaaagag aaatactgaa 360
ttactgatca tataagtatg attcttcattg gttaaactgg gaattgtacc aagtgagggt 420
tccaatgaga atatagccca ttagcattac tgatggaagc aaaatt 466

<210> 7312
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7312

caagatcatt tgaactgggt acagccgtgc ctttctgagt tcgaattaag gaactgtaaa 60
gttgtcgagt gacctgcagt ttocatggcg aacataatgt gctttgttag tcttaaccgt 120
atagttgggc ctatgattta tggttttggt cttgttaggg cgtttgtctt ttgctatcag 180
atatataaaa tacgatatct tcttcatttg ttcttgcacc ttcatacatt ctcatcattc 240
tgtatgttta tttctgtgaa ggtactaata ccgaggacct tgacgtcgat tatgagcgaa 300
tagcaaacca agctgaggat gaagaagata aagatgcggg gtttccccta tagctagaaa 360
ggatgggtcac acagganaac cgataaatga agccacacga agaagagacg gaaa 414

<210> 7313
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7313

gaatcaagcc aaggctattg tgcaagcaat caatggggca aaacacacca aatgattata 60
 atgatggatg gctcaaattc tcacaaaggt aaaatcatca ctttcaaatt gagctttcaa 120
 aactatcatg acatgtagag aagaatcaag gatttcaagt cacaaaatgt caagaacttt 180
 tattttcaaa acaattaccc atttcttgaa catatcctat aattcaaaga anaacatgca 240
 aagtcgtacg tgcacacaaa attgacccaa aatattaaac tgaaaatccg acgaaactaa 300
 caacattaac aaattaacac aactaacaaa ttaacaaaac caacaaaact agcaaaacca 360
 aagaacactc ccnccccccc ccatacttaa acaacacatt gtcctcaatg tagcacaatt 420
 a 421

<210> 7314
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 7314

gaaagaaggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga aaagaaaggt 60
 ttccggaaca gaggaatca aggttcaac aatggggaga tggaccattt caagtgcttg 120
 aaagaatcaa tgacaatgct tacaaagttg agctgcccgg tgagtataat gttagttcca 180
 ctttcaatgt ctttgattta cctctttttg atgcagatgt agaatccgat ttgaggacaa 240
 atccttctca agaggagag aatgatgagg acatgaccaa gagcaagggc aaggatccac 300
 ttgaaggact tggaggacct atgacaaggg ctagagcaag gaaagccaag gaagctcttc 360
 aacaagtgct gtccatacta tttgaataca 390

<210> 7315
 <211> 600
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7315

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cccgccacgc ntacgctggc agtgtctcaa acgaggcggc angcgcccg gacaatctga 60
cacgagcgga tnnntngtac gtgnagaccc gcgactgact cgtcccttgc aaagccgnnn 120
naaggcgggc gcgagggcaa caccccaagg agttcggnc acaatcttca ttatctacat 180
cgcctcaggg aaccagaaa tacaatatga gaactgagga ggccaaacca ctataaaagc 240
gtcataataa ctcgagttag atggcgaaaa agtaatactg gaaggtgcaa cgaaataacg 300
gcaacgacga gcggaagaga aaacaaagca caatcttaaa tgaaaggaca tagcaacaca 360
cacacgacac gtaaactgaa agaccccaaa acagcgcgag ggagacaacc agaggcatgc 420
ggcagcgagt nattagtcag gcatggcgca ctagctgcag aaagagaaat actgaagcac 480
tgctcctgta aggcagcacc tacatggcca aacagggaa acgacgacag acggctccaa 540
tgagaatcca gcccatagca ttaccgatgg aagccgcacc gaaactaact cggagcccca 600

```

<210> 7316
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7316

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tttgaggggc ccaagtggac ctggttgcta tttacacccc cctttttact aaatgcaccc 120
ccttatatat ttttctgtaa ttctttttcc gtaacgttac gaaactttac gaatttcgta 180
acgatactta ttttcctttc cgcaaggtta cgaatcctta cggatttatg tatttactct 240
ttttggcttt caaagaagtt acggaaactc acggattgag caaaaacacc tcttttcgat 300
ttccgccaca ttacggaatt tcacggatta cgcaagcctg ctctcttttg gatttctgag 360
acgtctcggg acttcattta ttgcatgtca tcaatttata atcctcggac gaaattaagg 420
tatgacagtt gccctctnt acttacctct catcgagat aag 463

```

<210> 7317
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 7317

tatttttttt taatccatgc ttgagcttta agtgctcgaa tcaactcaaa tcgtttacac 60
aaggttttctc taatacacac acaaatgcat ataacttcta attataagaa aatttcaagt 120
acagtataaa atatttatga attagttatat taattactta ataattcaaa gattggattg 180
ctaaatatca tgttctgtta aaagtttctt gattttcagt gtgtgaagtt gattgagctg 240
ttcccatact cttacaaat aataataaga aaatgaagta aaaataaaaa aagacaacta 300
aaggagtcc cggaacaga caataataga aataactgac ccaccaagaa ggcatagtct 360
aagaaccttc 370

<210> 7318

<211> 195

<212> DNA

<213> Glycine max

<400> 7318

gccctatagt gagtctgatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga 60
aaacctggc gttaccaaac ttaatcgct tgcagcacat cccctttcg ccagctggcg 120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcaacc tgaatggcga 180
atggcgctg atgcg 195

<210> 7319

<211> 372

<212> DNA

<213> Glycine max

<400> 7319

tgaggaagtg ttgaaagggtg aaacttcctg cttttattgt tgaccacaga gtggtacctg 60
gagatatgtc gcgggggtca agagaccttg gggacgtcaa gtgggggtgct attgccccaa 120
accaagcttg actaatcccg acccaaccg ggcatagtcg gtcagtgaga acctgtgatg 180
tacctaaata ggcgagctcc tggcagtcaa cagatgaaag gaacaaagac cacatagcaa 240
ggaggcttgt ggtggctggc cagctgtgaa ctttgattga tatgtgggtt atggcctctg 300
gtaatcgatt accaacgggtg ggtaatcgat taaaaagctt aaaaatgaag acaggaggct 360
aagatggtct ct 372

<210> 7320
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7320

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 ctcaagcaaa gcttggatg ctggttttgg tcttggtatt gccatattat gatttttgac 120
 ttctgagaaa taaaatctat aaccatttct tgggtctaaa tttatgcagc tgttgtttaa 180
 tgttgtaacc atagttaa atgtacattc acaatattgt tgtaaattatt 240
 ttaattgttt gacaggatgt aatgtttaa ggcgtacaa tatttcattt tctgcgttta 300
 tgatgcatgt tgaaa 315

<210> 7321
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 7321

tgagcgcttg ccatagcttc taactcaagc cttctggcct catatacttg ggaagcctct 60
 tctgcagtgt tgaaagtgcc taaccatata cgattgttct gaaatgggtt atagatctca 120
 gaagccatt taccattt tctctgctg acacctctat atttaccagg agtcttcctc 180
 ctgctgatg gggatgagt caaaaccctc ttcttacttt ggggttgacc tttagtcta 240
 accctcattg tatttatttt gttattcaac tcacaagaac tagtttcaag agtggatgaat 300
 gtgtgaagaa gacggagaag agagatctca cacatacttc ttttaactat tctcgggttc 360
 tgaatcctct tggagtcac atcgatgaa tcagtagcat caggatcgt 409

<210> 7322
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7322

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ctctttctgag agcttccgct agcaattttg agcggctcta gatcctatct tacacaatag 120
gacatccgac tgaaatgata ttgtcacttg aatatgctta tagcttcaat tttcaacata 180
cgagcgtcta cagatgttac aggactcaat cggacatccc atttacctgt catagatctg 240
tgacaatatt taaatctttc gacctcaatt tccagcgtat ggtcttccac acggctcaat 300
ctgacatcct aattcaaagt t 321

<210> 7323
<211> 378
<212> DNA
<213> Glycine max

<400> 7323

attaaggcga agaagtggga acctgaagaa ggtggtggag gaaggcgctt gcggaaaagc 60
gaggagaaga gagagtgagc gctgtaagtg atgagcctct gagcgggatc caccagcttc 120
gacaaccaac cattgttggtt ctctctgcta gggtttctga gggacgttgg gggccgatcg 180
tacggcgtcg tttggatcct gctgcggaag gggcgtttcc gaaacttccc tctgctccc 240
ccttcgtatc ccttctcttt ctcttccgtc gccatcacac taacactgag ggagagtgtg 300
tgtgtgtgcy tgtgtgcgta cgttctgtga atcggtgctt ccaagacgga aagagaacat 360
ccatagcact gcgatgta 378

<210> 7324
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7324

tcagtgtcat actatngatc aaaacaaagc aggtataaat atgcaatact agactcaaaa 60
tatgcaacaa acactagacc taaatcagtg tcacagaaat tggaagaaaa tattttatcc 120
aagcacaac ttcaagcctt attccatgta ttggggggaa gttatggctg gccatatggg 180
tagaggtgtc atagaggagc aggtatggag gaagggacct tggactgctg aagaggacan 240
gttgcttggtt gagtatgtca ggttgcattg tgaacgtaga tggaactctg ttgctaggct 300
tgcaagtaag aaacacaaaa ctgttatcac tgtttcgcta ctaaaatata tgatcggatt 360
ttcacattta caaccga 377

<210> 7325
 <211> 137
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7325

gtctcacatt atctgcctca attcttggag tgcagcttat gtatctattg ngtaacttca 60
 ctcagtgtca attgatttta agatgaaatc taacatggta tcagaaccca taatctatct 120
 tggttctcgc ctattct 137

<210> 7326
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7326

tctaagttct ttaacaagct atgaacaata tacnatectc ttcattaact gtctctgcgc 60
 ttggcggcca cgctcaacaa agtactttcg acacctactg tacgttgatt tgaccaatgc 120
 tggttatggga atattgcgac aatctttcaa aaccttggtg atacattctg agaggttggt 180
 tgtcatgtgg ccatatcaac gtgcttctct atcataagcc atcgaccatt tttcctttga 240
 aatgcgatca attcatgttg ctatggctgg actcaattca cgaaatattt ctaaagtgtg 300
 ataaaaaatg tgcttggaag agtgtacgct gcctaaaatt agatatcaat aacgtggatg 360
 agtctctatg aaacgtaaatt aaaccggacc atcaaataatc aaatcttacc ca 412

<210> 7327
 <211> 152
 <212> DNA
 <213> Glycine max

<400> 7327

agaagtgaat atgatttttcg ttcateccctc ctggtaattc aagaatcact tgaaattagt 60
 gaaaaaaatt ggtttcgtga agaaaatccg agccgaggcg cttccgttac gttttcgtgg 120
 ggattatcgc gaagattctc aaccgttctt cc 152

<210> 7328
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 7328

tactcaagct tgtagattat tgatttaaac attatttagt ttattctttc ttttatacat 60
 aatatacatt tatgtaaagt ttactttcac catttagttt gtcaaattat atcaaattca 120
 agttagacaa cattatcttc aatatttgac tcattgtatt aagttgaata tgacaattct 180
 attattatct gtatctaaag ataattatta taaaattcaa taaatttaca ttacattccc 240
 taaaaaaatt ataatacata atattttata atattttata atttgatgac aataataatg 300
 ataaaatgca ttaggctagt taactcaact gaaacctttt caatgaaatt tatgtcttta 360
 aaatataata tcatattaaa tatgaataac tttagtctca tgtaagtatg atataatatg 420
 gacttaactc ataaaattct gacttttaca ttactcaagc tttatttaa 468

<210> 7329
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 7329

tactcaagct ctgatgggtg tgagaagaca tcacatgttt gtcacatca attatgggga 60
 gaatgtgaat gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaagactc 120
 attttgcttc aagattaata caagattgtt tcaacaaaca aagccttgat tcaagatttc 180
 ttcaagatca agccttgctc cacaatgaaa gggttcaagt cattcaaggc acatgtaatc 240
 gattaccaat acatgtaatc gattaccaat gggttgaaat tgtgtaatcg attacacatc 300
 atatgtaatc gattaccaga gactctgaat gttgggaatt caaattttta atgaagggtc 360
 acaactgttc aagaaaaaca actatgtaat cgattacact aattctgtaa tcaattacca 420
 gagaggattt taaggaatat cgccacagtc acat 454

<210> 7330
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 7330

ctcaagcttc tcttcctctg gatggttcag tttctcactc tgatgatgat gacactttct 60
 gtagatcatc tccatacata tcagatgatg gtcaaagccc tcgctctgac tataattctg 120
 atcagtggga atctgatgag actccggaaa gcagtgacca aggggtgcat gattctcctt 180
 gcagaaggtc atcaactgaa tctgtgtcca atgatgatac caatgcaaaa agtggacatg 240
 gtacatgtac tatgaatggg gtggaacatt ctctgtccag gcctttactt gattttccaa 300
 gttacgataa tgttaatcct gcacttgaga aagaaagtaa aaaacattcc aaatgcaata 360
 atgctgttat gtcacatagt catgcagagc ctgcacaacc acca 404

<210> 7331
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7331

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 gaatcaagat tgattcaaga tgttttgatg ataacaaaga tgataacaaa aagtccaaga 120
 gaatgacttc aagattgagt caagaacaat tcaagaatca agaatcaagt ttcaagtttc 180
 aagtttcaag tttcaagaat caagaatcaa gaatcaagaa tcaagaatca agaatcaaga 240
 atcaagagta atcaagatca agattcaaga atcaagacaa gactcaatca agataagtac 300
 taaaatgttt ttcaaaacat tgagtagcac atgaagtttt cacaaaagct gttaccaaag 360
 agtgtttact ctctggtaat cgattaccag tttactgtna tcgattacca gtag 414

<210> 7332
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7332

ctttcttcac ctttattgca gttctacatc atccgcacca ccttaaccct aaaaaccaac 60
 ataaaacaca tcaaaacctt gaaatagtac acctttatga aacttctaaa agtgcctatg 120
 gaagaaaaca aaaatggagg atgagagggg aaaaaaagg gtttcttacc tctaaaatca 180
 atccaaattc gaaaaatcct ttgtgctaag gtttcaagtc actaaaaact aagtgtatga 240

ctcttctctt attttctatg cgcaccgcat agcttcttaa gtcacttac tccattctat 300
 atcactcaag gcccatcat cttagcccag acatcctana acagactatt cacacccaaa 360
 caaagtnttt cgcatttgta aacataacat acatacaagt accacacatt gtcattctat 420
 aataattaat taattaat 438

<210> 7333
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 7333

tgtaaggatt gattgaataa gtgtattatg tgtattgaaa agttaatcaa agccttgctt 60
 ttatagactc ttcatgtttg gccaaagagga ccatttagaa gagttataac ttttagaaaa 120
 acttaaaacc aatttgaaaa agtcaaaata ccttttgatg agttacatct tttgatttat 180
 tcagaaacaa aactggtaa tcgattacca aattagtgtg atcgattaca caaagctttt' 240
 gtgtgaaagg atgtgactct tcacatttga atttgaattt caacgttcaa aggcaactgg 300
 aatcgattac caaaacattg taatcgatta cagctttttg aaattaattg gaacgttgta 360
 aattcaattt aaaaaccttt tcaaattccat tttgtactg gtaatcgatt acaacaatat 420
 gg 422

<210> 7334
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7334

agcttctatc accctggctg tgctagactc atgaatgggt gcgaaatctt gttgaatcaa 60
 tccatgtnat ctgcacaca gtggcaggca ctgcacagag ttgtcccaca ggtgcaatgt 120
 gttcactaaa ttgcatccat gtatcatccc tttcttcaat agagacagaa gacacaacag 180
 gatgtgccat aatagtttag atgtatccaa actgtcgtac taccctgttc ggtcggcgaa 240
 tgaccatcaa ggggccccat gtgagatagt cccacaataa tgagatgacc tcaaattctc 300
 taaatgaacg gtggtctcta tactgaacct agtacaccac gtcaggggtc agtctgtcca 360

gacgcctgtg atacatggaa actggcagcg ccttgccaga ggtccatcag catgtacgca 420
atctcctgtc atcataatac tcaatatg 448

<210> 7335
<211> 287
<212> DNA
<213> Glycine max

<400> 7335

gttgacacac tttgtggtag atttacggat ggcctttgtg gataactagt aggtgggtca 60
cgatgaagtt agtcatcggc tgagttatca cattgatggg tcgcggggaa acttggacgc 120
ctttgaatcg gcttcaccac atcagtgtt cctcttttct caccctcttc atctgccccca 180
gttgtctaag acctcttatac acgatgatga aacttgtctc ttttcagatc cacttcgatc 240
ctttcacagg cgaagacccc attcgctacc ttgaatgtgt gtcaccc 287

<210> 7336
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7336

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tttnagatca cgctgacggg cggaataacc cgagtggat cggataaaat tttgctgtct 120
gtaagacgaa aagcctgata acacgcagag actaacgtcg tcttctgcgc ctttcgtcaa 180
tcgcggccga caagcccggt gacacgcgga gaattacgtc atcttccgtg ctcacaagat 240
ctgtcatact gacttttgag tcacgctgac gagcagaaat acccgagtgg ttatccgtat 300
aaactttttg cattctgtaa gacgaaaagc ctgataaacac gcagagacta acgtcgtctt 360
ctgcgacctt catcaatcgc ggccgacaag cccgttgaca cgtggagaat tacgtcatct 420
tccgcgctca caagatctgg cctattgact gttgagtc 458

<210> 7337
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 7337

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ccatgacaca aatgcaaaaa tgatgatttg gaaattctat gcaaaactgg tcatgcatgc 120
acctatgcgg acactcaagt gtcaaatctt tatggtcatg tgatgctacg gctcaagatt 180
catttcctct attttttagtc aaccgaatgt ttccaaaata tgttcttgta tcaatttgTg 240
cattcatccg agtccatttt gggcgtccgg gaaaatnttc acagcattca cccttcatgt 300
gtatacacat ttttcagaaa ctagatatga tcagcgaatt ttttcaaaga aaagttggaa 360
gtcctctctt ttcaaaagca tgttggattt tcagctagac aac 403

<210> 7338

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7338

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ccttaggcag ttttctctct ttccaatttg ctgggaaaaa ttgtttccgt gaagaaaatc 120
taagccgagg cgcttccgaa acgtttccgt aacgtttccg taaggaattt cgccaagggt 180
tcgaccattc ttcgacgttc ttcacccgtt cttcatcggt cttcgatctt caacgggtaa 240
gtacctcgaa ccaagctttt cgattcattc tatgtaccgg tgggtggcca cattgtgttt 300
cgtgtatttt tattctcatt ttatttactt tntatacccc cttttgacgt gcttaagcca 360
ttttatttaa gtcatttctc gcttaacctt taaataaaat aaatttccac caatcgtttg 420
aattgtatta 430

<210> 7339

<211> 451

<212> DNA

<213> Glycine max

<400> 7339

ctcagctttt atccaggctc atcttgggtg tgaagctcct tcttccatgg cttattccct 60
agtggatggc acctcctctc acctcttctc atttgtcttc cgctgcatct ccatgggtgga 120
aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 180

agcaagcttc catcacaaga taccttggac acgcatgtat atggcaaaat agctcacaaa 240
 atatacgtat gtttaggttag caaaatacct caaaaaaaaa gagagagagc aaaaagagag 300
 cgagcacgac aagaataaga taaaaataat aataaaaagt tgtctagcta aaaaacaaca 360
 tgcttgtgaa aagagataat ttccaacttt tctttgaaag attatactga tcttaaccag 420
 tttttcgaaa aataaaaatg tgtgtacata t 451

<210> 7340
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7340

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 attccattaa cctaggggaat taaaagaact taatggctga gtgtaattga aattgtggca 120
 accaaaagtc accccaaca gccatcaagt cagccaccat ttggtctcct aaaaggctta 180
 tgcctaggtt gccaattagg cccttattac aacttgaact aaaccaaact aaagcccttg 240
 tagttgattg acccaaaaca tatttttgat cagccaactt tacaaggatt gggccattat 300
 ttagaaaaac taaacactct aaaattgaga caaagtgggtg ccatttagtc ctctccatt 360
 tgggccatga tacaactcac aaccttggac ttttctcctt gaaacttggg cttgtattca 420
 aatagtatgg acaacac 437

<210> 7341
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 7341

gatcattgca cgggccggag attctatcac tgactactga gaagaccttc cctgtgcatt 60
 cctgactctc ggaggctctg ctgcaatttt aatcggtgc agtgctaact atgatgcccg 120
 ctccgatcct tctatactac atgacgcaca ttacttggaa ggccacatgg cactcacgta 180
 goggagaaaa ccatactact cggttgtgca gtagatctca ccacgtatcg atcgcatct 240
 gtactatcag gtctgatacc gcataatgtca tgcaactccg aataccgtcc tctcccgcac 300

actcttccgg tgcctagacc agatcctata gctgttacca tgcttacatc gggattgaca 360
atctcaattg ctctag 376

<210> 7342
<211> 335
<212> DNA
<213> Glycine max

<400> 7342

acaggatgac gcctactctc gcctatgact cggagtatgc tactgcatac gcatggagga 60
aattcgccat tgatagacct gatagaaact cttagaatca gactccatga agctcacacc 120
gagcgccata actttccttg aaccgcatag ctcggtgcgt ccgctgataa tcactcaccc 180
accctgtct atttacaacc gtcagccacg caactagaca ccagacgttt gagccatagt 240
gtgccacact atcatcgcta gactcaccat agtcctgtac atcctctgac tgagcggaat 300
cttttctca ctattatgag gcaagacacg aaata 335

<210> 7343
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7343

tacttcaagc tttcanaaag cccctttcc ataactotca aggtgcatat tccttaatgc 60
tacatgtctg tatatttcaa tttgttttga tggtttggtg ttcattcaca tttcacaaca 120
ttgaaaagaa aatgtattgt agttagtat agagcaataa aaattgataa ttaatgcctt 180
gttaatttct tttccaacac cttatgattt taatcatggt aatatacaac atttggaacta 240
ttatttgcaa cttaaaaacc cttgaaatat aaatcttgat tgaatgataa gacaaccaat 300
ttttctatgt tggatcgagt ggccctcagaa taattaaggg ggggttgaat taattattcc 360
taaaccttta caaattaaaa attactctnt taaggctntt actaaattgt taagagaatg 420
aggagtagaa gagaaaactt aacagaaagt aaaagcgaaa attaaatgca cagc 474

<210> 7344
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 7344

ntgcacttgc caatngccat gatgtaatct cttctttgac agtctctcat caagttggag 60
 tggatcacaca gcattgaact aaggtgaacg ttccaatggg atgatgggtt tgatcgctgc 120
 acataaagtg cgtgattgtg agtttctggg cccatgagtt aaactataaa gactaagaaa 180
 aatattgtct gtattttaac ggcccaaagg ataactaaac ctttcattat ttacattatg 240
 ctttttaaca actgggttata tatatgtagc agttttattct aaacaatgga ctacgtgtga 300
 gatctttgaa ttctatgtaa caaatgttgt ttcacacttc tcacagact tcatgtcgaa 360
 gatggcatgc t 371

<210> 7345
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7345

ntgccttttag cgcttgtacc tcactcttt cttccgaagc tttaacctca ttgtctctca 60
 cagtcttttag aattgggagc caatccaatc cttgtgtccg gactctcagc cacttatgat 120
 agccgccgat gatccatta ctgcttcccc taagctctct gtcctttctt catgccgcat 180
 cccatgcctt gogaactcct tggagtacct ttgcgttgtg gtcactgaaa ccccgtagca 240
 tgaaaggcgt gatgctttcg tctgatggca ctctctcat ggggtagcca tgctgtctta 300
 tggcgaggac gggattataa ttaatacaac ccctgtgtcc catcaaggga acatttgagc 360
 atccttcgca tgaagataga atcctgattc ttcttctctt ctacgagagg aaccaattaa 420
 cagacgcccc tccatgctag ccaagagttg gtcccaat 458

<210> 7346
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 7346

ttatcgctaa ccacagatta ccatgctgaa taatatggac aaattcgaca tccttgtctc 60
 tctcatgctc tcacaatcac atcttggtt attcaacttc caccggaatg tgagtgtgtaag 120

ccattgggtt gtttgcctaa gcgacctgcg ctctgagtt tttttttttt acttccaaga 180
 tcggttcaaat tagagatttc tcgtcctaca cgttggtgag ggtgcttgaa acaaccagtt 240
 aagcataaaa gttcaaaaag aaaaagaaaa aagcattcga ttgactgtgt tctcaagtta 300
 aaatatagac attcgtatga cctcatttta tcattcctga taagcttgtc tttctgacac 360
 acaactaaat tatcaacaat atcactcatt tgacttaatc tatcaaaacta aaagaatcct 420
 tcatatgttt ctcgataatc aac 443

<210> 7347
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 7347

agctttctct cacaattaat gtgtctactg actaacaatt ctaaattgcaa gttcacattc 60
 ttgtgccttc tttgtctaac atacacactt gctcaaactc atgaaaagag acacaaattc 120
 catcaaaatc atgcactcaa ttcaaaataa agacatacac ccatttttca caaaaagata 180
 aaagtacttc actgccatat cattaaaact aagttaaact gttcaaaatg cttcataata 240
 agcaaacaaa ctaccataa acaaaaactaa caaaaaggaa ttaatgtact aaaaccatga 300
 ccataataat aataataatc taaaaggcaa caacaaaaga aacacaaaat catcaggaat 360
 atcaacattc ttgtcagtgt gagccacaat ttcttcagca gtccatccag tcagaaaagt 420
 cataaccatc atctatgttg caagat 446

<210> 7348
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 7348

catcaagtgg tatctgagca caagagcttc tagtatgtgc tccttaaacc tccattaacc 60
 tcaattgttg tttcttcatt tttatccatg tatttctca catgtcttgt gtttaatgtt 120
 gttaacatga ttcttttagaa cttccattga ttaaacttgc tatagaagct agatttgatt 180
 ctctatgggt caaatttctt gttcttggtc ttgaaccatg aattgtgttg agtttaggtt 240
 cctttgagtt ttgtattcct atttttttgt gtggttgaaa cctaaaccat aaaattctta 300

caaaaacatt aaagtagagg aaaatctaaa aaatttagag tgacttggtc acctattgta 360
gttttgtcat agaagtcatg tctatgttgg gtcgagtggc ctcagaataa t 411

<210> 7349
<211> 483
<212> DNA
<213> Glycine max

<400> 7349

aagcttgccc actcaatatt tcttcaaata tagtaagtca tatacacggt catgatattt 60
caagaacctc atgtttttta gttgtacatc cacccaataa agcatcaatt tattttcttc 120
cctatttttt tattttctga ttagagaaaa aataagaaac tataggagaa tataataata 180
ataataataa taataaaaca aagcacacaa aaagaaaact gatcggtgaa atatgatata 240
atgattcaac aattaattac gtgtatatta atatttaatg aattattata tatagtaatc 300
aattattata tgttaataaa tgtaatgaaa gtcataattt cttgatgctg aatcattgta 360
tgttaagatg atttgattgg ataacaatta aagtaattaa aaaaattcaa ttggaataat 420
atgtctacta ttactattag catcaacatt gaataaatta aataaatatt aattgattac 480
atg 483

<210> 7350
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7350

aagcttcgct caatntgcaa agtgctggat aatatccagt ttaattaatg tacactctta 60
gaggattaaa atgaatggct gagatcaact catcaaaact caccgtatca tttatctcat 120
tcttttttcc tttgaacatt cacttctggt gactctagta tagctctctg ctttctatct 180
aagcaaatga aatctttcga ttctcctcat aacatctatc tattttttgt tgttatccct 240
cgtccaaaaa aatgtcggac gcgtttcana acaaaatata acagaaaaac atgaacaaaa 300
tgataatcta acagaaagtt aaaaaaatag aaatggtagg tttttaatga ttttcttaaa 360
aaactaatat taaacatcaa aatttaatat tctcatthaa gatttttgaa aaagttaaga 420

catttcctta tcaattatth ctttaataa aaagtgtatt cacaattatt a 471

<210> 7351
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7351

taagcttacc accaagatga gcctcggata gaagcttgga tatgatgctt caatggagga 60
 gaataaagag ggagagaaaag agagaggggg gagcacgaaa ttgaaggaag aaaaaggagg 120
 agaagctgaa ctttgagttg tgtctcacia gactctcatt catcaaagtt acaacaagtg 180
 ttacacatgc ttctatthtat agactatgta gcttccatga gaagctgtct taagaaaact 240
 tccttgagaa gcttctthtga gaaaacttcc ttgagaagct agagcttagc tacacacacc 300
 catctaaaaa ctaagctcac ctcttgaga agcttcttg agaagctaaa gcttagctac 360
 acacacccat ctaaaaacta agctcgctc tttgacaaaa tacacgaaaa tacgaataan 420
 agtccttact acagagacta ctcagaatgc cgctgaatac a 461

<210> 7352
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 7352

ctcaagcgtg gagaggatgc ttcgatggat gaaacgaacg agggagagat ttatagaggg 60
 gggagcacga aattgaaaga cgaaaaaagg gagagaagtg gaactttgag ttgtgtctca 120
 caagactttc attcatcaaa gttacaacia gtgttacaca tgthttctatt tatagactag 180
 gttagcttct tgagaagctc tcttaagaaa acttcttga gaagcttctt tgagaaaact 240
 ttcttgagaa gctagagctt agctacacac accctctca taactaagct cacctccttg 300
 agaagatttc taaagaagct agagcttagc tacacatacc tctctaatag ctaagctcac 360
 ctgcttgaga tgagaagcta gagcttagct acacaccctc tataatagct aagctcacc 420
 ctatgccgaa aaacatgaaa atac 444

<210> 7353
 <211> 451

<212> DNA
 <213> Glycine max
 <400> 7353

ctcaagcttg aagagatctt caatggctac gaacaacaac gcatttcatt ttgcttcttc 60
 tttccccaat tacatatcac ataaagtcga agatacaagc tttcttttat ggcgtcaact 120
 agttaagcct attatcaaact caaacaact tcaatgattc attgctaatac cgcaaattcc 180
 actttgattt ctctttaaag aagatcatga aattggacgt gaaaatctag tttatgaggc 240
 atgggagtag cataattagg tgttattaat ttggcttcaa tgcattcttt ctacactgat 300
 tttttctcat gtgatcggtt ataactctc ctatgaagtc taggagcaca tccatgatta 360
 cttccacaag cagagcatcg ccacaacgcg tcagttgcac attcaacttc gagcaatgaa 420
 acctggaagc aagttgatgc aatagtttct a 451

<210> 7354
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7354

actaagcttc taaggaagtt ttctcaagaa agcttctcaa ggaagttacc tagtctataa 60
 atagaagcat gtgtaacact tgttgtaact ntgatgaatg agagtcttgt gagacacaac 120
 tcaaagttca acttctctcc ctttttcttc cttcaatttc gtgctcccc ctctctcttt 180
 ctctccgtct ttcttttctt ccattgaaac atcctctcca agcttcttat ccaaggctca 240
 tcttggtggt gaagctcctt cttccatggc ttattcctta gtggatgacg cctcctctca 300
 cctcttctcc tttgtcttcc gttgcatttc catgggtggaa aatcaccatt aaaggacctc 360
 attgaagctc anagatccag cttccataga agccccacaa gcaagctgtc atcacatggc 420
 tccaatcaca tccaaataaa agccttaaca cttggga 457

<210> 7355
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 7355

tcttatccaa gacacattct tggtagcgaa gtccttctt ccatggctta ttccttagtg 60
gatgacgcct cctctcacct cttctccttt gtcttctact gcctctccat ggtggaaaat 120
caccattgaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180
agcttccatc actttccctt tgaaccgcaa aggctcgtgc cgtcagcttc ttaatcactc 240
acccaaccct ttcttcttcc cagcgtcaac aatgtaacta gatttcattc gctaaagcct 300
tcttgtagcg cactttcgtc gcttggttca ccaaggtagt gtacattctc ttctgtttg 360
attccatttc gtttcgaatt tgattcaata ttgaaataa aagcttttgg cttattcgat 420
tgttcataaa ccacttgcct ttagaatcgt gtaatac 457

<210> 7356
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7356

aagcttaatg gggctgatct tgagcttaat aatgtccttc aatggtgatt ntcaaccatg 60
gagttgcagc ggaagataaa ggagaagagg tgagaggagg cgccatccac tanggaataa 120
gccatggaag aagaagcttc accaccaaga gagtgtattg ggtaagaagc ttatagagga 180
agcttcaatg gatgaagaga atgagagaga gagatagaaa aaagtgggtg gggaaatgaag 240
gatagatagc gagaaaagtt aaactttgaa gtgtgtctca caagactcta actcatcaca 300
gttatgacca gtgttacaca tgtttctata tatagctagg tctaacta agataaagct 360
atcttgagat accttcttga gaagctagag cttagctaca cacactcctc taatagctaa 420
gctcacc 427

<210> 7357
<211> 302
<212> DNA
<213> Glycine max
<400> 7357

aaactaagct tgtaaagtgc tggatgggct tttccttcgc aagttgactt gaagatgtac 60
aacagttacc ctgagctctc tgatgccttg tgcaagatgt ataactcctt caccattggc 120
aactataatt aatccataat ttaccatata tcaacttttt tttatataga atttaatgac 180

tgatcataac tcttacgtat cagtatctag attgttttct gtttaatatata actacccaaa 240
 agatatggat cttaaatttg atcatgttga aagctcacta atgggtgatg tgaatattaa 300
 at 302

<210> 7358
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 7358

cctgactgtt acaacttaca agttgctttc catttcttat agttgttccc cctcttatta 60
 tgttgtttgt tttgtgaatg tttcttggtt tggttcctta gaattaattc tctctctctc 120
 tctctcaatc ttggatcact tatctacttt gaactatttt tcttgatgc actgggacag 180
 cataacttat gcttgatatct catgcttcag tctgagttca gtacaagttc catatctttt 240
 tcattttata atttgctttt gggatgtgca ctacacggct ctcagtctca gagctaaatg 300
 tagcacaggc aaattttgat aaatatgagc gtgtgtactg gttgggatgt ttctcactta 360
 tttattttgt cttcctcccc cagatatcct gctatctcta cttgttaact taacgctctc 420
 tcttgtagtg acaaactgca aacgtaatat ttga 454

<210> 7359
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7359

gaagttagat atatgtgatt atctattcgt tatatatata tatatatata tatatatata 60
 tatatatattt gcagtttggt aattaagact taaaggccca tgtcagtgtt atatatttat 120
 tgttttgaat tggttagtgc atgtatatta catagatttt atactattat taattaattg 180
 atgttgaaga tgttataatg ttgttatgat atgatttttg aaaattagtt gattcagtgt 240
 atgtgtatat aggttggtgc ttgtaaatat tgctatgaat gtataaatatg atatatgagt 300
 ataagtgaag tatgcgtgct tatgaatata tgtgaagaca atgtgtcatg gtatgtgtgt 360
 gtgctgcgaa aaaatgtgag aagaatctac tccccggga taggaatctn caagagatnt 420

tgaaattaaa ccatgtgcat attgtgtgtg aaccatgaat catgttgtgc atatg 475

<210> 7360
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7360

agcttctata tagctgaacc actttatcaa taaacacaag ttgagtttta ttcagaanat 60
 tagagtttat ctcttttatc ttagtgagag tgattctcct aaattcttga gtgattcaag 120
 aacaccctgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180
 gtgattcttt tcatcctttc atcttcaccc ttgttctttc aaaccacaat tccagaanat 240
 ccacctctgc ccagaattat ctctgtggcca taactcccat tntacgcact caaattaagt 300
 gattcttgac cctaaattga cttta 325

<210> 7361
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7361

aagcttctgt ttaacgaaat gggtacagga ctgattatat caaagtgaat atactgttgt 60
 tttgtaattt gaagccacac aatacttcaa aagggtaaat gaataaagat ttatcacccc 120
 ttttgaatca ctttcatcgt ccctttttga ccttacatat ttgctttgac ttttacgtac 180
 gctgcagcct gttaacagtt gctactttta agcatgcatg gctatggcca actaaatcaa 240
 ttcatttcag atatcattgg aatgaatggc acgattatgt caccatttac tgtatttaca 300
 aggatatggc aaatgcaaaa caatggcact gtgtggccaa aggggaactc gttggatggg 360
 aaaaaacagg tttagtgact cttagttgaa aggttcaaca tttatgactn tctatgtaga 420
 ttctgtttgc atgttacaga ataatggtat gctacgctct tgaaattgag tact 474

<210> 7362
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7362

tatagagtag tagtagaatg acctttgttt atatatatat tttgggtcaaa ttattaatta 60
 ataaaaattc ttcaatatat ctttctcacg ttgaagatag gacattttta acagaaaatt 120
 tactaacatc ctgtagactc ctttttctta taccatccta tagactctta tacaacttta 180
 aaacttagat ttttagccaaa ctcaacttac aaagtaccct attatcccta atatgtacat 240
 cctttaagta taaatttgct cttttaaaga gagaagcatc tcgaaaatta gtcttctctc 300
 attattgata ntcttatttt aacttttaca tttaatcttg tacgatcagc aacttaagga 360
 atagtcataa caagcgagaa gtacacgtgt ntcttttctt ttgttccgat tctcactttc 420
 ataaatttat tgtatc 436

<210> 7363
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 7363
 aatgaaaagt caatggacgc agaagctttg ggtgaaaggg ttctctcaat aatcaaagca 60
 gactctagtc cttttgattg tgattctgac aaatcccttt atgaggaaga agaagcccc 120
 aagtctggtc aacacgtgga gtttaccttc cacggttcac acaccctcc ttatggatat 180
 tcagaagccc acaatcatat tgggccttcc actattaaca cccacaagc ccatgtgaac 240
 gaaactcatc agcagcatca ggagatatcc taggggtctac aagtgtatac aacaaagaag 300
 tggttcacia gaaagaagcc cacaagactc tctcacagag ttgaactctg ctctattaca 360
 aaaagaaaaa gaagctatta ctgagagaca gcgtgaactt c 401

<210> 7364
 <211> 76
 <212> DNA
 <213> Glycine max

<400> 7364
 cgagaagttc cgacgtgcc a ttgcccgcgt gcctatgatt gctgaccaat attccgacct 60
 ctacgcggaa agagat 76

<210> 7365
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7365

atctaaagac tgaagcataa acataaatct aaagactgaa gcataaacat aaaatctaaa 60
 ttataaaatg tactaagaca ttgatattat taaactgggc aaaacacaag gaattaaaaa 120
 ttcttattct tgccattaat cttttccaaa gtttttggct tcttatttca aatcacatcc 180
 aggagtgcct gatgatgaat cctgaggaag gggtaggtct ggcactgggtg cagatgactc 240
 aggctgagaa gaagacatgt ccagcactgt agtggaaggc tctgggtgtca cttgtgggggt 300
 agctgctact agataagtct aaaaaatgaa aggctcgggt ggagtgggct ctgaggcctc 360
 tagaatgtca tctctctant ttggcagagg ctcttgggat gt 402

<210> 7366
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7366

tactcaagcc ttgaccaaac ccncagcagc agttgtttcc ttagagactt gcctcgacac 60
 cttgtctctg agactgagga taattgcatt gtgtgccttc tgcagtagtg ttttcttacc 120
 cccatcagcc atcatctttt caagtttggc ttctccatct agtgcttcca ccaggccctg 180
 ttggacaaga agagctetca tcttcaattg ccatagcccc aaatcatttt gccctgtgaa 240
 tatttcaacc tcgtacttgg gcgagcccat ttcttgaatc gaactcaaaa aatcgctcca 300
 cgctcaccac accaatttgt tgtaccaaga tcaaatttta cttcacaaaa gaatgagttt 360
 cttgtatgaa caagaataag caaaatgcag aaaagaaaaa aaaatgaacg aacactgcac 420
 tgtgtcaca acagccactc tattcaatct ctacataatt tc 462

<210> 7367
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 7367

cttgacttga gtcatacaaga gattatattat atgtgcccacat ggcatagagtt tcataaaatca 60
 tccttcaaca tctttatcac tatcaatcat ctttgaatca tctatctttc aatctttttt 120
 aacatcatct ctcaaacatc tttcaatgaa tctttcaata tctttctata gaattttttg 180
 attcatttct cttcatcttt ctaaaagttt tttatcaaca ctttctcttc caagaaaagt 240
 tctttgttaa aaaacttggt ttattcatct ttttcattct cttctccctt tgccaaaaga 300
 acgaaggact aaccgcctga attcttttgt gtctctcttc tcccttataa aagattccac 360
 ggactaaccg cctgagaatt ct 382

<210> 7368
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 7368

gtttcgcaat attggcggat gattagtata atagagggtta tgatgatatt tgttcaaata 60
 ttaaccctgt tgaaacttat tgtttcattc aagcatatgc aaattgctag ttctaaatga 120
 acttgttccc ttctctattg tctctgaatc aacgcctatt ttggacttat atcaccttgc 180
 atatggtgga tgacgacatg atgctgagtc atcttgaaaa tgggaattat ccctttttat 240
 gtgagctttt ctggttgatc acttattttt gtcttaatct ctatttgtaa cctcaaaata 300
 gattggtata aagcatatgc gtattt 326

<210> 7369
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7369

acactatacc actactcagc ttagtgacat ccgtgacttg atcttgagcg aagttgttcg 60
 caatatagat tcangagaat cttccagtca tgtttccaat tcagcattga atactgaagg 120
 cacgggaagg actaccata atggtcagaa tggctgacgc agatcaaagt caagagggaa 180
 aggtcagaga aaatttcaaa gtgacgttac ttgttggaat tgtgacaaga gaggtcactg 240
 tagcaatcac tgcaaggcac caaagaagaa catgtcgcac aataacaaga agcgcgatga 300

tgatgaatcc gcaaatgcag caactgatga acttgatgat gcattaatct gcagnttga 360
tagtcctggt gattcatgga tcatggactc aggtgccgtc gtccacac 408

<210> 7370
<211> 115
<212> DNA
<213> Glycine max

<400> 7370
gctagcagag ggatgtcata tatgtggatg aacacatgag tcagacttat gcatggttca 60
agatgacaca cccaatgaag ataactacat gggctgtcat aatcatcaag gatct 115

<210> 7371
<211> 334
<212> DNA
<213> Glycine max

<400> 7371
cactattgat gctgcaattg agtgaagaga tctggctatt gcaagaacga gtttcgttat 60
tacagagagc tatcacgata cacaacgagc ccacgctggt gtttggttact tatattta 120
atgttaaatt acttatttat tcttataatt tcgttctttg ttttttttaa tttcaatagt 180
taataatgta attttcttaa atacttatag tttaaaaata tttttctaat tctgaccatc 240
tgcatcttaa ttcttttcta cctcatatcg cttaaaaatta atcttttttaa ttcataat 300
ttcgatttta atcatcttta atccctgtcc aaaa 334

<210> 7372
<211> 134
<212> DNA
<213> Glycine max

<400> 7372
gcttagctga attcagatcg aattgaagtt acgctttgct catctcttgg ccagcttagt 60
agaccatatc attctcagat gcaaggggtg cgcgctaacc gcttgagact cgtggcttag 120
cgcatgaaca gata 134

<210> 7373
<211> 443
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7373

aagcttgtaa tcttnttgca cttgtttggg ctctgattnt tgtattttga tcaagtgttt 60
tctttttctt acattaatac attagtcttt tgctatcagg agacctcctg acattgttct 120
ttcttggAAC aattattatt gcttctctaa atcaatcaca ttcattagat tatagtcggt 180
atccttattt tctttgaaga aaagacagcg tgcgccttta ggctttcaat gtgaacatat 240
tcaaaatgaa ttgaatgaat ctttgtgtga ttgatcaaag acattttccat atctaattaa 300
tcctttntgt tttggtatgt ataattgaaa atctaaccac gaaattaaga aaatggacaa 360
ataacatcac ctaactgatg acaatcgtgc atgccatttc ctactttatt tcatatcact 420
aagccccact ccatatagac aaa 443

<210> 7374

<211> 431

<212> DNA

<213> Glycine max

<400> 7374

gcttgactat caaaattatc ttacgagcaa gaaaactctc ttctcaaact tgggaatatt 60
taaaataata atgagcacia gaggtttact atgagaagct gcttctcaaa agtagtttgt 120
aaatacacag gttctgatgt actacaaaaa ttgctactat tcaagcccat atgaaactca 180
aaaatagacc aaattgaata gataaaaatc caaagagcat agaacgaagc atgggtcaatt 240
ggtcattgact catcatgact atgtgatagt ttatgaatcc attctgttga gtaatgtaat 300
gaccctcca atatcttggt caacatatac acgaactttg aatttattga gcagggtgtcc 360
gagtcattat gaatctctcg ataactggct tttgatgtct atataccaaa caaaaatata 420
tagaactttt g 431

<210> 7375

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7375

cttctttgag acaacttctt tgagaagcta gttctttatct acacacaccc ctctcataac 60
 taagctcacc tccttgagaa gtttccttaa gaagattcct aaagaagcta gagtttagct 120
 acacatacct ctctaataac taagctcacc tgcttgagaa gcttttcttaa gaaaattcct 180
 aaagaagcta gagcttagct acacatacct ctctaatagc taagctcacc tgcttgagat 240
 gagaagctag aacttagcta cacaccctct ataatagcta aggtcacccn catgacaaaa 300
 aacatganaa tacaaaataa aagtgcctac tacaaagact actcanaatg ccccgaaata 360
 caaggctaaa accctatact actagaatgg ccaaaatata agggctaaac aaaggaaaaa 420
 cctattcta 429

<210> 7376
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 7376

gaggatataa gacctttatc attggaaagg tggcgggtta catagagaaa gtagcaccga 60
 tagttgctaa acgaaagaaa atgtaagtct atgaatatga aagttaaata cctaaggcca 120
 attctcatgt taataaataa tattataggg ttgttaaaag acttgctcta ctattagagt 180
 atacattact tcctgaggta ttcttgcttt attcttagtt agcgattggt atcactagtt 240
 tgtaggact aactctaagg tagacttcat taacctcagt gcattaacta cagttaagtg 300
 ctaatgtgta aaaatataat tatagatcct cacctgagaa caattactct aatatatact 360
 gaagagtgtg ttaaacttgc ttgtaacctt acatcaatag tctctgaaaa ctacttgaca 420
 ttatagcgtt gaaatcctg 439

<210> 7377
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 7377

gcatgcaagc ttgccgcca gctcgccag gtgagcaagt gttgcttctt ccagaagcaa 60
 caaccttctg gaggaatctt ctggagggcc caagtgggcc tggttgctat ttacaccccc 120
 ctttttacta tatgcacccg ccttttctat atttttggaa ttctttttcc gtaacgttac 180

gtaactttac gaatttcgaa atgatactta ttttccttcc gcgaggatac gaatccttac 240
ggattatgta tttactcttt gttggctatc aacaaactat ccgaagctca cggattgctc 300
agaaacactt cttttctatt atgacacctt cctg 334

<210> 7378
<211> 196
<212> DNA
<213> Glycine max

<400> 7378

gcttaaagag ggtgcttcaa tgtttgacaa gaaagagaga acggtttatt acgaacatgt 60
acgaactaaa gagggagaga agtggaaactc tgaagtgcgt ctcataagac tgtcattcat 120
catagttaca acaagtggta cacatgcttc tatttataga ctaggtagct tcgttgagaa 180
actttgttga gaaaac 196

<210> 7379
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7379

gcatgcaagc ttgcagacta tacctccaac cgaacactgt tgtgtttcta tctcggccca 60
agtttattac gggctgtagc accggtttcg cttccctagc cgtattggag gcggtcaccg 120
tggcattatc ctctatagtt ttctggagtt ntagcatggc ctccatgata gaagccattt 180
gatcttttaa ggctgatagg tcggccttca tctgttcttg cacgccctct tcattatcca 240
tttttctgga tcgagtgtta taggggtgcc tttgcgcttt cttagttatg gtgagttccc 300
taaagaaaca aacaacggtg agtatgccat caaaacatga atatgcaa ataatgatcg 360
agcacttgga tccacctcag ggtttt 386

<210> 7380
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7380

ntctaattggg cctaagtggg cccaagggtt gaggaatgcc cctaaattga ccattntgcc 60
 cccatgttgt gtattttgcc cctacagatt gtgcgacaat tggctttaag cagctcaact 120
 cagctagcaa aaatccacat gttgacaaac attcgttccc ggacgaaatt agggcatgac 180
 acccactaac ccacatacca catcttcagt acgtgcccac tccttgggtg acatgtatgc 240
 aagagtaaca agcgtgcat gcacttgcct atgataaaag gcaaacgaaa cgcttgtctn 300
 caatgtgttc ttcaacggtc aaaaaagggc ataatngtca aatgcangga ctccaccac 360
 ttgacacgtc tgactctacc tgcanagcga anaccgtatc cacctggaca acttaataga 420
 agtagcacgg at 432

<210> 7381
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7381

ctgcangcat gcaagcttgc ttctacaatc aagaatgata tgaatgttct aattctgata 60
 ataacaatca ctgagtggat aatgttattg attagaggaa gctaattgaa gccaccagga 120
 aagaccatta cccgcttccc ttcatggatc aaatgcttga gagacttgca gggcaatctt 180
 tctattattt tttagatgga tattcgggct ataatcaa at tgcatggat ccttaggacc 240
 aagataagat agctntcaca tgccccttc 269

<210> 7382
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 7382

cttctatgac tatgtcttat tctctctaac ttggatagc tgattaataa tctgattctg 60
 actgtcaaca tttcaacatt tcaatagttg aatgatcaat tatgtttatc acgtgaaaga 120
 cgtatcgtct atgcataaag atataacgat gaccctaaca tcattgaaat tccaacaaca 180
 ctagacccta ctttgagaaa gatatggcaa gccacatttg ctttgatcca tagatatcca 240
 agacaggtat accaatgcgt ctaacacatc ttatgtacc 279

<210> 7383
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7383

tgacgcatgc aagcttatta aggtgtagag atatgagata cgttnttgnt tctcaaagca 60
 caacactaat tgtgtttata agaatactat taaatcttat tgctatcatc gatagccagc 120
 agacatatgt atatTTTTTgg aaccatactc attgcttctc taagtccagc acatttctta 180
 catcatcgtc ggtatcctga tttcctttgc ataaaagaca gccggcgctc tcaggctctc 240
 aatgtgaaca tactcacatc gacttgaatg aaacgcogtg tgaccgatca acgacanctc 300
 cacatccact taatcctctt cgcgaccgca tgtctcatca gccactatca ccactccaac 360
 tctactggcc acttcaacct ctctcaccga ccgtccctct ctcgctaata caactctatc 420
 cactcctctc ccctcctgac acaacctgcg atgagtctct cc 462

<210> 7384
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 7384

gcatgcaagc ttgtagaatg gctagacatg atacacgtca tggtttggtt tggttcaagg 60
 ataaaaggga tgccccacat tatttccatg acacaaatgc aaaaatgatg atttggaaat 120
 tttatgcaaa actgggtcatg catgcaccta tgtggacact caaatgtcaa atttttatgg 180
 tcatgtgatg ctaaggctca agattcattt cctctatttt aatcaaccca atgtttccaa 240
 aatatgttct tttatcaatt tgtacattca tccgagtcca tttcggggcgt ccgggggaaaa 300
 cttcacagca ttcacccttc aggtgtatac acatcttttc aaaaactagt tatgatcagt 360

<210> 7385
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7385

taagctggga gaaaagcttg aagatgtttc atcttttaca ttcccaactc ttttgagtgg 60

catttgtatt ggttgttata ttgaatgttg catcttagtc catatcatat attttgtgca 120
 tcatgcatca tcatgagtaa gtgagaagaa acttttctaaa gttagaaaat ttcttcagaa 180
 ggcaaaactc tgttttaatt tgttatagcc ttatcataat caattacata agttgtctta 240
 agcttgcaaa gttatgtctc atatgttgga tcgagtggcc tcagaataat taagaaatgg 300
 cggttgaatt aattattcct aacactttac caattaataa ttactctttt aaggcttnta 360
 ctcttgctcg taagagaata tggaatagac gagacactta accgaaagta aagcgaaaat 420
 taaatgcaca gcgga 435

<210> 7386
 <211> 125
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7386

gagaaagagt tcttgggtca agacatgaga agcaatcaag tataatgtta cttccttcac 60
 taaagcggty atccatcttc acacatattt tatcaatagc cacatanaaa atctctgcac 120
 ggtaa 125

<210> 7387
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7387

tctatggagg cttgatcttt gagcttcaat aaggtccttc aatgggtgatt ttcagccatg 60
 gagttatagc gaaagataaa ggagaagagg tgagaggagg caccatccac tagagaataa 120
 gccatggaag aagaagcttc accaccaaaa gagtgcctta gataagaagc ttagagagga 180
 agcttcaatg gaggaagaga atgagagaga gagagagaaa gagagagagt ggcagagaaa 240
 ttgaaggaga ataaggagag aagttgaact ctgaagtgtg tctcataagt ttctcattca 300
 acaaagttgg gacaagtgtt acacatgttt ctatntatag cctacgtcac taacgttgtg 360
 aatntcattt tcatttcatg tgaacctaca agggatattc c 401

<210> 7388
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 7388

ctcagctttc cttatcatgt acacggatca tttttaaggc ccagcgcctt aaaatgatca 60
 cctttcaagt aaaaagaatc gcttgattca cgcttaagac agaactacgt atgttctgat 120
 tcctcatcga tggagggtac gtacgagcaa aagccccgct tttgtcgacc tcaaaaaata 180
 aaaagagata aaagttaagg tagtacaatt tccacaattc taaaaaatag gttggcgctc 240
 tttgagacaa acgtgagagg tgctaatacc tttctcaaac gtaaatacaa ctcccgaact 300
 tagaattctc attctgatcg gctc 324

<210> 7389
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 7389

gaggtccagg aaggacaagg cagcagaagg aactatttcc gtcctggagt atgattgtca 60
 ccgcttttagg agcgcggtac accagcagcg ctctgaagcc atcaaggggt ggtcgtttct 120
 ccgggagcga cgcgtccagc tcagggacga cgagtatact gatttccagg aggaaatatg 180
 gcgcgcggcgg tgggcaccac tggttactcc catggccaag tttgatccac aaatagtcct 240
 tgagttttat gccaatgctc ggccaacaga ggacggcggtg cgtgacatga gatacct 296

<210> 7390
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 7390

aagctcgctt cttaccattc caagaaacta ggtctttccg tatctatattt gtagtaccac 60
 gagagttctt attatcagac ttgaatcctg cccagtcctt atctgagtta cgcagaagag 120
 atatcgtaac acccctcaag tgccagacct catcatccaa agtgatctga tgaccatata 180
 aataccgcaa accgcgaccc tgtaagaata gattgggaga tgcacacatg caaacggctc 240
 acttaatgat aggtctacta gcagtcaagg gaagtatgga ataaatgata ccttgatacc 300

ttgttgatc aatagatttt cctattatat tagcactaag tgtgcaataa gcatcaaaat 360
 agttgctgcc tgcttgatgt gtccttctca gacctttcat aagatgattg tgtggacatg 420
 cgccgtcaca ctgtaaagg aattactctc 450

<210> 7391
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 7391

tacctcatgt actcctctaa tgactatagc tatatttctg gcgctaaact gctgcgagat 60
 ggtagccatc ttctcaacta aatttctggc ttcagcatga gtcatgtctc caagggctcc 120
 atcactggca gtatgtatca tacttgtttc catattactg agtccttcat acaaattattg 180
 accaagaaac tactccgaaa tctgatggcg gcggcaactg gcacatatgt ttttaaactcg 240
 ctcccagtac tcatacaggc tctgtccact gagttgtcta atacctgaga catctttctc 300
 gatggctgtg gccc 314

<210> 7392
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 7392

tgaatgggtc gttcagtcctg accatctgtt tgaggatgat aagctgaact aagcttcaac 60
 tttgtcccca aggcttcatg tagactcgtc caaaatcgcg aagtgaacct cggatccctg 120
 tcagatacaa tactagaagg aattccatgc aaccttacta cttccttgat gtacaactcc 180
 atgagtttct ccattctata cttcatattc actgggataa aatgagcaga tttggcgagt 240
 cgatctacta tgaccacac tgcacatgt ccacgactag tctt 284

<210> 7393
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 7393

tactaagctt caggttgctc attgactcca aattgttgca aagaaggaca attatctgta 60

tggatgatctg cagaagaaca tagaccacag actcttgcaa caggtgtaga tttctgattc 120
 atggcaagct gggttactag gttgaccaag gcatcaagtt ttccttcaag ctttttattt 180
 ttagtagatg aagatgaatc cgtggccacc tcatggactc ctctaagaac aatagcatca 240
 tttcttgaac tgaattgttg ggagttagaa gccatcttct caatcaaatt cctagcttca 300
 gtacgggtca tatcaccaag agtccacca ctggtagcat caatcatact cctctccatg 360
 ttgctaagtc cctcat 376

<210> 7394
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 7394
 aatgtgcttt gttctaaaat ctacttatca tctaacacat catttcttgg acaaatagct 60
 ttatactcat gaaatgaaac atgaatccac tcttcagttg tcattgttct cttattatac 120
 actctataag ctctactatg caaagaataa ccaccgaaaa ttctctccatc tgacttagca 180
 tgaaactacc ctaagtatcc ttt 203

<210> 7395
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7395

gactatggng tacccatcac atgtggtact aggtggctgt cgggcatgg tgcacaactt 60
 tcttntccac atccacaatg cgcgcataat ctccatcc cctgttgccc acctacaact 120
 gagctcacgt actcccacgt agcccatata ctcgtttctc tcatcacgg gtgcccacatca 180
 gtgctcccga gttccacaa catccaagaa aaacaccatt cacacagcac aagctatcac 240
 acccaagcaa aacagagcac acgcagaaaa ctctgcccac acaccaacca aaaatcacag 300
 cttttccac tcaaagaccc cagtaacaat tccttccatc caattcgtaa ccgttggtatc 360
 acccccaaat cttactggaa gtctatagtg cataagccta cattttgacc gttgggatct 420
 ac 422

<210> 7396
 <211> 257
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7396

acacgacgta cataagacgg acgcgtgaca atgtatgcta ccttcctttg acagaagaca 60
 cgggtggtgcg actgagatgc acgctagcac tcgatggggg gttgatagca taattctcag 120
 acaaacttgg agatagcttg agcgaggtag ccattatcac gcanaagggg catatattga 180
 agcttaatgt taacgttggt gggcgtgcac aaatgtcttt gataatcacg atttctacta 240
 cagtgattac aaataca 257

<210> 7397
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7397

gcatgcaagc ttgacaactt tagcccagtt aatctcaaca ttatttgctc tataacccan 60
 atcatatgcc atattcatat caaatagaat gacccanagc tcaaccttta gaatattaca 120
 atgcataagt ctcccttgaac acaatttcag aaaatcacct ttactattct agagtgaac 180
 acaacaagca gcaagggctg ctaaggcaag gtaagagtca tcacaattaa tttttgtagt 240
 actctgcaga ggcttcttcc acctttcaaa tgcacatggt ttgccatata atcttttggt 300
 gctaatatca tatgagtgcg tttgtttcta catatatcat atacaccact ccaaactc 360
 aacactagac ccagagtgtg tgtcacttat tacta 395

<210> 7398
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 7398

tcaagagaca gtgcctgagc tgcttaaaaa ctccctgctt gttatgaaga tgaggggtat 60
 actggcccag aggagtgcct tgggtggtga tagtctgtgg gaacttacat ggctacacgt 120

gaataacatt tcaccatcat tgcaacttga ggtattccct gagcaggatt ctgagcatTT 180
gcagcacaaa caggggtgaat caataagttt gctgcctgat gaaaaggggtt tcgtgccttc 240
aagtgaacaa acaatctgcg aacatgctgg cattcgttgg taactat 287

<210> 7399
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7399

agcttcttat ccaaggcaat tcttgggtgt gaatctcttt cttccttggc ttattcccta 60
gtggatggtg cctccccctc cctcttctcc tttgccttcc gctgcatctc tatggtgaaa 120
aatcaccatt gaaggacctc attgatgctc aaagatccag cctccataga agctccacaa 180
gcaagcttcc atcagacctc tccttttgta attgcataaa aaaaattgga cccattccaa 240
aatatttctc tcccttttaa atggctctta aagtaagaaa attggataag taatttttga 300
aatattaaaa gtgaaaataa gtagtcttct aagtattgaa aaatgtatta aattagtcta 360
tgcattgtaa gatggatgtt cttttgcaac atanataata tgaata 406

<210> 7400
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7400

gtctcataag tcctanatta tatttcaagc tagtattaac ttactttaac ctccatttac 60
cacagaattc agacttagcc ttccaacctc cagagcctca ctcttttttt ttactcata 120
acaccacatt ctacttttcc aaccttaggt taactctata tttcatctct atcagttttn 180
cttcagcaac tttagcatat aaacatcaca cacatcatca caaaacctta aaacagaatg 240
ggtagtgtta actcacccaa acatggcaat ttcaacaagc tttcaacaca agtcttcaca 300
aataatcatc acacagcaga aacctagcaa gactacccat catatctccc acaaccccat 360
acccacgaga tttaagagag agagaagtcc acccaaacct gagatttcga agtcccactc 420
gtagccacgc acttcacgac cccgaaaatt ccctcc 456

<210> 7401
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 7401

caggcatgca agcttcattc ctttctcact catgtgtcca agtttttgat gccacatggt 60
 cgaattattg atagcttcag taactgctac cttatcctca tctgcaagca tgtaaagaag 120
 accttgcaatt tttccacgag ccacaacgag attgcctttt gttaccttcc aagctccatc 180
 accaaaagtg gtgtgatgtc cctcattatc caactgctct atagatatta aatttatctt 240
 taaggcggga atatgtctga cattgtgcaa tgtccatagg gattcactgg aggtcttgat 300
 gttgatatca cctcttccga caatgtcaag agactttcca tctgcaagggt aaactttccc 360
 aaatcttcca gaaatatagc 380

<210> 7402
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 7402

ttctgctgtg atcagcattt tctcgggtgtg tgtgattttt gatgaccac aggatgatga 60
 cacacgtgat gaactacagg ctcatgtgaa tctgagaaca tttcgcgaga atcccgactc 120
 acgatcacga ttcaggactt aggaatcacg actcaagatc tcatgactcc agatcaagat 180
 tcccgactta agatctcacg actcaagatc aagattcccg actctagatt tctagaatga 240
 atatacgact ctatcctgat cagctagctt tttgcggact ttgaatagcg catgacgttt 300
 tgaccacgc tttaccaaag agctcctact gcttgctaata cgataccaca ttgctgtcat 360
 tgattacctc agctcacaga ggttgcacca gttctcacac tgaatctacc acgcttccga 420
 tatattacac aggtcggatc gtttccatgt ttcg 454

<210> 7403
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 7403

tggttatggtt gcgtgtctaa gagatgaatg cttgggaggt gtatatcgg ctcgttatgc 60
tagcacctcc atgaacgagt ggatgctaca tccagagtga gagtgagtct ggggtacatg 120
gagcctgtgc tgagacgaat cgggcgacca ttaactgcct gtgatgagta ta 172

<210> 7404
<211> 184
<212> DNA
<213> Glycine max

<400> 7404

tatcttaaac ttttttgacc atgtatttac aggttattac gctctgagtt cagcaagtca 60
tcgtaaaact gatgatgatg atgataactt acacggagtt cttgaggcga tgatttcgcg 120
atcctagcta atttgattgt ggtcacaaaa ggattcatca caagaggtaa gacaaactcc 180
tatt 184

<210> 7405
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7405

cgcgcaaccn cgngacanct ttgatccctt tgcganancg cgactctata taataactcaa 60
gcttgtgaat gagtgtgaaa caatgcttaa ccaccttttc cgggttaacg atccttcgac 120
ttctggcgag gcacctoca caagctgagg gagggatgtg atgcttcaac ttctaccagc 180
accaagagta ttgatcatct gctgatgcct aatgatttag cacctcccaa ccatcacatt 240
gatagccttt atatgaggag aaccactgtc acttagcctg tttggcacga tattctacag 300
ggaagctaac catgtagcat gttttcattg ccaccatcgc agataagtgg cttggaagaa 360
catggaccaa aatccctatc ttggaacaca ccgccaagta atgtgctcga tacattggcg 420
attgaaaacc acctactttt agtggcttgc gagcttcacc tctactttat attttttact 480
cttcacaaac taccgcccc 499

<210> 7406
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 7406

tgccagcgta catntataat cgacctgcac gcatgcattg ctatgccttt attatgcaac 60
 tatgacatat tatgtccgag aacaccattc ctaattacca tgcattacgg accattgtca 120
 attatctttg ttttaagtga aacgggttat gatcccaaca tgggtgtggct tgggtgccta 180
 acacatgaaa ctaagaatgt agtgaagttt caccttctcc ctctttgggt ttggtttgta 240
 taggaagaac gcattgaatg ancaaaacat gaaaaacaca tgggtgtgcc aattttggca 300
 gcatcacaat aggttgtgct tgaaccgctt attgcaactga tggatgccaa tgacttatag 360
 cataaatgtg aaggctggaa tatgatatcc ggaccaatgc ncgattaggt caatcttgat 420
 gcaatgacga gatgcttagg cgaatcatga gtctgatgcc tttcacggac cggatagcct 480
 gacg 484

<210> 7407
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 7407

ttatgcgcat atttccttac aaacgttctc ttgcacaaga cattctatta accgaaaaaa 60
 tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120
 tgtatttgggt acttacatca cacacctctt tggctaaact cacatacatg cataactcaa 180
 gcattttggg gtaccaaaaa ttgcacatgt gcacatcttg gtattttctaa tacctataca 240
 tacacaaact tcatgatgaa tottaactat ctacacaata aggtgctaca ttttatgctc 300
 ttttcaagat ttagctacct a 321

<210> 7408
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 7408

tgcgcaatcc gtgaaattct gaatgtgtcg gaaatcgaat ttaggtgttt ttgcgcaatg 60
 cgtgagtttc cgtaacttct tcgaaagcta aaatagagta aatacataat ccgtaaggat 120

tcgtaacctt gcggaaggaa aataagtatc gttacggaat tcgtaaagtt tcgtaacggt 180
acggaaaaag aattaccaaa aaaatagaaa ggcggggtgca tttagtaaaa aggggggggta 240
caaatagcaa tctagccac ttgggccttc cagatc 276

<210> 7409
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7409

gacttttaag ctgctctctc tacctttata aatgtgggtc taaaatattt cacaagtcac 60
cacttactag atcttattac caataaattt tcaagacata cttgcatgcc atgtttgcaa 120
ctttgaataa ttttttggca tctgtttctg ttactagttt tctttcaata ttaacacatg 180
gttgacatca actagtagtt gatgacaaaa tattgcacag gaaagagata acatgtgaag 240
aagttataaa agattgatga gccatgatga cgatcatctaa aagaagaaca agtcaaaaca 300
ttcatcatcc accanagaaa caaaaaggag gtaaaaactta cccttaactt gttcatccca 360
gcatagctta gtagccaaag tgggtttccc cattccaccc aaaccagtga gcagaacaac 420
tgacactcca 430

<210> 7410
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7410

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ggaacactat caagaagcat tcccctatat gtctgcatct tggttgtaacc atctgtagtt 120
tcatcaaact tatggactcc acctatgtct agaccagcaa ctcccttcca catggaaaca 180
tctgcgacca tatcgactcc attaacaata tagaagaggt tacgttcaag gtcaacatgt 240
gcataagtgt agaatacttt gactagtttt atgttaaagt tctctttcat ccgcaaaagc 300
tttgccagcc cttgaacttc cagtagattg ggaaagttaa acccttgctg agaaaaccat 360
tccaagtcca gatacttgcg aactttcatg tnttttacia cataatttaa cttgtagtcg 420

ctcttctttc cttaatctgt gaaccatgta

450

<210> 7411
<211> 265
<212> DNA
<213> Glycine max

<400> 7411

ctctctcttt cgaatctgct taggaaaatc gttttcgtga acaaaatcca agccgaggcg 60
cttccgtaac gtttccgtga gtgatttcgc gaaggttttc gaccgttctt cgacgttctt 120
cattccgtct tcatcggttct tcaactcttta acgggtaact accttacacc aaccctttca 180
attcatttta tgtactcgtg gtggcccaca tttgggtttca tgtattttta ttctcccttt 240
catctacttt ctataccacc ttttg 265

<210> 7412
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7412

agcttagatg cagaacaaga gaggttacat ggatatataa gagatctcga gcaaaatagg 60
tcgcgtatga tataatttaa aatgtaagtc caacattgggt tttcaataca aaaccgatgt 120
taacagaatg atgttaacgt taacatcggt tttcttcaag aaaccaatgt taactgggtca 180
tacgttaaca tcgattntca gaaaatcgat gttaacgaac atagggttaac atcgggttttc 240
ttcaaaccgg atgttaacga agagatatta acatcggntt tggaaaaaacc gatgttaaca 300
aattaatggt aacatagggt ttacaagaac cgatgtaaac gtcact 346

<210> 7413
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7413

cgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgagggtcc ttcaatgggtg 60
aattttcacc atggagatgc agcgaagac aaaggagaag aggtgagagg aggcgccatc 120

cattaaggaa taagccatgg aaaaaaagag cttcaccacc aagatgagcc ttggataaga 180
agcttggaag gatgcttcaa tggaggaaaa gaaagaggga gagacagaga gagggggggag 240
cacgaaattg aaggaagaaa aaggagagaga agttgaactt tgagttgtgt ctcacaagac 300
tctcattcat canagttaca acaagtgtta cacatgcttc tatttataga ctacgtagct 360
tccttgagaa gctctcttga naaaactctc ttgagaagct tctctgagaa aactctcttg 420
agaagctaga gcttagctac acacac 446

<210> 7414
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7414

gaagtttggt tttacatgcc gaaatatctt tagtgtaact tgtattgagt gttatattgt 60
gtgttgcatc ttagtatcta ttatttcata tgtgcatcat gcctcatcat gtatgagtaa 120
gaagaaatgt ttttgaagtt agaataactc ttttgaagtt aaaactcttt gttttaatag 180
attacatggt gatcgtaatc acacaagtgt ttgtagcttg cagaanagtc cctcgtatcg 240
gtttaatcga ttataggctt atagtaatca attacatagt tcttttttag aacaatgatg 300
atttttcaag agtctctact ttaatcgatt accagtgata taattgatta ctctctttt 360
aaaagtgtgt tagaagtgat caagagcact ntaaccgatt acatcaagaa tctaattga 419

<210> 7415
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7415

tttgattctt aattttggtg tacgaggaga gcttgagtta aatggtgctg cccatcccaa 60
atggataaaa cctagaggca tactgacatt tgagaatggt gaacttgatc tatttgccac 120
acaggatatgt gtaatgtttt atttttacaa ctctgtaaa ttgtaccctg tggcagtgca 180
gtttctacta ggttggnntnt cttttggttc gtcttggtga tttcttgaca catgttgatg 240
ttgatacaaa ccatttcaaa atgcangtga ggctaaaacg agagcatcta aacattgcaa 300

agtttgagcc tgaatatgga ctagatccaa tgctttgatt agctttgggt ggatctgagt 360

<210> 7416
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7416

cgatgccaat gagatgacga acggctgttg acaacatddd gatatcacga aaccagcaac 60
tggtacagta gagaagcttg gtggctagag acctgcggac gtagcgaggg tgctattgac 120
cataatcagg cttgatcaat gcctgaccac ccctggctta gtcggtcagg gagaacgtgt 180
gacgtaccta agcacgcgag ctctgttgg tctacagatt acaggaaaac acgaccacat 240
agcaaggagg cttgtggtgg ctgagccact gtgaatcatt gtgtatttgt ggattgcgtg 300
cctctgcaat caaacaacaa ggagggtgat attactctaa cgtgttcatc tcagatatgt 360
tggtaccaag gtggttgtac tctttcatca aatcagttat cacatcatct gctctttctc 420
tttagatctn gaatcttacc tactaacgc 449

<210> 7417
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7417

catgcaagct tatgcgcata tntccttacg aacattctca tgcacaagat attctattaa 60
ctatagaaaa atgcacccat atacaatcaa ggcagcttcg ttacctagat tatttacacg 120
tacttccaag gtgtatttgt tacttacatc acacacatcg ccttggctaa atttacatac 180
atgcatactc aaagcatttt ggggtaccaa aaattgcaca tgtgcacatc ttggtatttc 240
taatacctat acatacacaa acttcatgat gaatcttgac tatctacaca ata 293

<210> 7418
<211> 248
<212> DNA
<213> Glycine max

<400> 7418

cttctactta tgtggcaggg ctgtggcttc ttcactttct tgtcttaacc gcgagctttg 60
 acccccactc ttcctttccg cgatgcttct ctttacatct gcctgagtgg gcttatagcc 120
 taaaccatac ttcccacgat ttcctttggc atttatcacg ctagttatgc cgccgtctgc 180
 tttgactaca tccattacgg gttcgaaacc gctccccaac ataacttgcg ccatcattac 240
 tgctgcat 248

<210> 7419
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7419

caggcatgca agcttctagt ctcaattnta gcgtctcgat atattacca attcaatcgg 60
 acatccgagt aaaaagttat tgtcngttga atttctacg agcttctgtt ttcaatttgg 120
 agcgtctcga tatattaaag gactcaaccg gacatccatg tataaagtta ttgtcaattc 180
 atatttctta gagcttcgga ttaaaatctt gagcgtctcg atatattacg ggactcaatc 240
 agacatccga gcaaaatggt attgtcgttt caatttgata cgagcttcta ttttcaattt 300
 ggagaatctc tccatatatt acaacactct gtcgggcacg cgagtaaaaa gttattgtcg 360
 tttgaattct ctaagagttt ccgttttcaa tttggagcgt ctgatatat tacgggactc 420
 aaccggaca 429

<210> 7420
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7420

cgaaggcaca ctggatgtgt tgggtcaactc ggtaaccacg ctgttcttga atcagaaatc 60
 tgtacctgtc gcaagggtta ggggatagtg ctgctctgct gaccacgata cagacctttg 120
 cccttccatg cagcaacctc gagcaattga gcagcctgaa gcttatgcag gacatatata 180
 caatagacct cctcaacctc agcagcanaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaactctg gatggaggaa ttaccctaac ctcatatggt ccagccctca 300

gcaacaacaa caacagcctg ctccttccct ccaaaatgct tctggcccaa gcagaccata 360
cattcctcca ccaatacaac aacagcaaca acctcagaga cagccaacag ttgaggcccc 420
ttcacacact tncctcgaag aacttgtag gccaatgact 460

<210> 7421
<211> 319
<212> DNA
<213> Glycine max

<400> 7421
gcaggcatgc aagcttttaa taattggctc agcttcctcc atgtgtatag gctccccagt 60
catggtagtc tttgaaagca aaagctgaca acttctaatac tttgagctaa gctcccaggc 120
aagggtgaaga ttatcgtgct ctttggcaat aatcacataa gacctggcca gaaccatttg 180
ctctgctaac tgccgtgaaa aggatgttgc acttaacatt tcctcagtaa aattatatct 240
cttggcaaaa tgttcaactc tagcatttct ctcctgcaaa gtaagtaact tgctctgtaa 300
gtaccacta cccagaggg 319

<210> 7422
<211> 198
<212> DNA
<213> Glycine max

<400> 7422
gcttatacctt atggcctgcc ttctggactt acttctccgt gccaccccg aagatttaag 60
ccaagcccct acttttgagg ggcaactccc actctatgaa gactatcccg ggcaagacga 120
tggggaagga gatactccat cttgccccct gctccacctc aaagatccat ccccgctaga 180
actaccccag ccgaacat 198

<210> 7423
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7423

catgtagctn tctctagaag cttcattaag aggctgtctc tataagcttc ctctgtgctt 60
ctttgagaag ctttctcaag aggattcttt gagaagctag atccttatct atccacaccc 120

aagagacagc gacaactcag gcgtaagcat ttatgccatt aggctaaatg cttgagggga 180
 tatactccgt gcaagatgaa taccctagta agaatgactc aggagacaag gaagactcac 240
 ccttaagcat tttatgcca aggataaatg cctgaggggt tgtacaccag accgatatga 300
 gtattttgga gatattgcct ctagtgagga gatga 335

<210> 7427
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 7427
 tctagccaaa tggacttacc ttgaattaat tcctttgata tctcttttcg agccttgttt 60
 acctttcctt gggtttgaagc tcactacaag ccttatatga aaaaccatga tatgaccata 120
 ttcttaccga atttttggagc tttggaattg ttttgggaaat aagcgcgggg ggctttttgc 180
 tctattggat aactcgttct cgtggctatg ctttatgatg tatcttgccg catacttcat 240
 gtacattgta tattgcttaa atgttggaca tgctgaatg 279

<210> 7428
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 7428
 ctgtggatgc ctttaaaatt taaggctgat gtcaagacat tatgtggaaa gcaaattaag 60
 atcgtgagat ttgatcgatg tggagagtac tatggcatat acatggacaa tggacaagct 120

<210> 7429
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 7429
 gactatacga ggatcttcc ttgcgtatag cattatatct aagggtacc gtgtcttcta 60
 cttgcgaact aagaaactca tcatcagtcg agatgttgaa gctgatgagt acactctttg 120
 gaattgggat gactcaacac gcccgacaa tattcttatc cc 162

<210> 7430

<211> 238
 <212> DNA
 <213> Glycine max

<400> 7430

gaataataat caaatattac taaaggttac attatcattt ataagtcaaa accaaataga 60
 atccagtcac aaaatactaa gtgcaaata ccaaaatata actaatagtc agagaatgat 120
 aacttataaa gcatagccca atacacggct taaaataaat aataataata atctaaaact 180
 atgaaggtgg tggaaggctg agcaccgacc aaaataactc acatcctctt caagctga 238

<210> 7431
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7431

cgctacattg atgcatcttg gctacggaat cttcgaattg ggcacttann atttggaggc 60
 ttaagtctgc tatcaaagga gaagatggta agaggactac cctatattaa tcaccctgat 120
 caactctgtt aaggatgttt acttggcaag aaatttagaa tgatttttcc aaaggagtca 180
 aactcaagag ctaagaagcc acccgagcta atacatgtta acgtctgtgg gccaatcaag 240
 cccaagctc actacgtaaa aataaatatt tcctctttct cattgattat ntttcaagac 300
 aaacatgcgt ctatttctta aagcaciaat cataagtctt ttccacct 348

<210> 7432
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7432

atcttaagtc gactgcagct gcagctatta ttccanaacg agttttgata atttatcatt 60
 ataagaacaa aatatatgca tgttgaaatt tataagaatg aaatctaaca ttatatgata 120
 taaacatatc tttaaggttt gatataatat tcataataac ctacttaaaa atatattttg 180
 aaataatata tttaaataag acataagctt attttttaat aaacttaact ataaaattta 240
 gtctaccgct ttatataaat caacatgatt aacattttta aaaataaata catgtaagat 300

tttaatgtat tatatcaaat ttaatatataat aataacacta ataatgaata tttatattatg 360
aactttttaa taaatgatct tggtaagtct aaaaaagttt 400

<210> 7433
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7433

ntcaacaacc tccttctatt ctcttggagc tcgagcacia tatttnttaa gtactgtcta 60
ttgttacaac agtatcattc gtctggtgcg tatccaccta tattctaaag aaagggtactt 120
tcatgctaac aagctggcac attgttgtgc ccataccaca ctttgttatt ctcggcggga 180
ttctatctca cctcttcgtt aagcatgact ctgttacgaa tcaaattctc tctcctgcgt 240
acaagctttc gtatcttata ttgaggggtct tgggctgata cttncatctc gctactgtcg 300
tctctctcct cacacctcac acttcatacc aaaccaacgca cacacacgct cggttgcgct 360
ccccacgcaa accgcgcact gtcttctctc gcgcgcataa ctctcgtatc atcatgttcg 420
catccgcagc gatctgactc tctcggcatt ctctaccg 458

<210> 7434
<211> 395
<212> DNA
<213> Glycine max

<400> 7434

agcttcatgc ttaagtatgt atgggttaaac ttcattacta ttgttcaaga catactagtg 60
agcttgtaat aaatcttcta gacttggagt gatcacatgc agtcctcttg aacccttacc 120
accactctg tcatcatgcc gagactcagg aaggccaata ggtttagcct tctcaatgta 180
ttctgaacaa aatttaatgg cttcttctgc aatgtacctc tcaataatag atgcttctgg 240
acgataaaga ttctttatat acccttttaa gatcttcatg tatcgtcaa ccgggtacat 300
ccacctcaaa taaacaggac cataacattt gatttctctg accagatgca caatcaagtg 360
aatcatgatg tcaaagaaag caaggggaaa ataca 395

<210> 7435
<211> 358

<212> DNA
<213> Glycine max

<400> 7435

tcacccctcct cacgctttgt ttaaccggcg aacacttagg atttagaggt aatctgtggt 60
gtacgatgtc cgaactcaaa ccgggcatat cttgggtatga ccaggcaaag atgtcttgat 120
agtttttttag cagggccatc atttcttcat ggatgggtgc gatcataccc gtgcctatct 180
ttacttcctt tttcccacta ttggttccta agtcactag ttccgtctct tcttgatgac 240
ggcccatctc ttcgtcctat gggcaactat attoccaaact ctggggaagc cccaccccca 300
tcctcttact tcccccgac ccgttcttgc tcgcaccacg gcggttccac tataaccc 358

<210> 7436
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7436

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cgcaggattg gcaaaaggcc atgcttgaag gattcgcgcc ttgngtgaat catgggtggtt 120
gggtcccttg ccaatgaaga tggcatgcac gacaaaggag gtcgaggagc taggagggggg 180
aaaagtctac ggggaagagg tggtaggtgg cggaaatgga agatgaaagg acggaggagg 240
agaattctca atgtttgatt tatatattta tttactttaa ttgattctaa caatttttta 300
ctgtcagaga atttaaatat gatattgaaa caaataccga cgaattttta agctgtcaca 360
aattgcgcta tcaaataattt aatgaacaca tcactactta acgtgacgac agaattctaa 420
a 421

<210> 7437
<211> 452
<212> DNA
<213> Glycine max

<400> 7437

tgaaatgcaa atttgtgttg agagtatgga ctgagattca tatctttgca tgtctacggt 60
ttctagagag agacagggtcc aagttccaga gagttttgag agatcttgct gtgtgaagat 120

ctgcagagac cagagcttga agcaggagct ggtttaagag cttgagatga gtctgtaagt 180
gattgtgaga tcctagaggt gaaggagaca tcctcaccac ttgtattttt gcaatctttc 240
atcttgttct tctctttggt gctaagaagg ctctctggta tggaaagcta aatcctctat 300
tggatcttcc ctgtaggtac ctaatgtaaa tatatttcta tctatttaat gatgtcttgt 360
gtgttctctg tgctatctgc ctttcattcc agtatgtcta tatcttgatc acgtagatgc 420
atgcttttgt acggtcattc aacagtggaa ac 452

<210> 7438
<211> 189
<212> DNA
<213> Glycine max

<400> 7438

catgcaagct tgtaattgat aactgaagct ctgagcacat tcatacgaca ataacttcta 60
tctctgatgt ccgattgagc cctttaatat atcgagacgc ttgaatatga aaacgcaagc 120
tctaagaaaa gcaaacgaca atatctctat actcggatgt tcgattgagc cctataatat 180
atcgagacg 189

<210> 7439
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7439

ggcatgcaag cttctaccac tggatatttaa tctatnttta tcttagaaaa taaataagaa 60
aattgtccac cggtttacca acttctctta tgcctattgc ctaatcctaa atttctgatt 120
tcttttaaaa aattacacca tactatatgt acagtatatg attgggtaag aaaaaataat 180
ttagactaaa caaacgtatg tatagtatta cgatttaatc aacttaatca tagattattg 240
gtcaaaggat gcacttatcc acacacaaga aatactatta tgattgaaac ttacttaata 300
ttcacataaa tatttaaaaa ggaatttatg actctgaaag ttaatcttca tcgtctatct 360
ttatataccta t 371

<210> 7440
<211> 177

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7440

tgcaatgtat tgctcgacaa ggacatgaat gctngttggt tatcttgggc ttgcaaggct 60
gcacacccat gaacatgtgg ctgacacaac aagagtgata gggactctgg ggtacatggc 120
acctgaactt gtccgaatcg ggcgaccatc agctgcatgt gatgtgtata gtttcgg 177

<210> 7441
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7441

atcttctata taatctgaac tattntatca atattcaciaa gttgagtttt attcagaana 60
ttagagttta tctcttttat cttagagaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccctg gctgtgtcaa aggactttta caacctttgt gtgttgccct cactggaaaag 180
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccaciaa ttccagaaaa 240
tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgtac tcaaattaag 300
tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgttt tggaatcac 359

<210> 7442
<211> 158
<212> DNA
<213> Glycine max

<400> 7442

gcttcttccc gttcgtcgtc atgcaggttg tcaacatctt cattaagcct ctgtctcatg 60
ctctatcttc aggtgatat tccaagctgt gaatgatgaa catgcagtcc cagcttgagg 120
cggctctcag tcgaagccta cgtacgctgg ataataca 158

<210> 7443
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 7443

ttcttattgg attataacaa cgcccagaat ntattcttct tcttattttc gcatacaaat 60
tattttatca ctaaattgat catctctcta acgactgaag agatcaatac aatatatatt 120
tacgtattta tctgagacct gtcgtgatat ttgtttaaac aatgtacatc tatatatatt 180
taagagtaca tagaaaaata ataggacttt aaatttaagc catcttcttg ctctgttcag 240
cacctttaat ttcaaatca attt 264

<210> 7444

<211> 623

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7444

ctccgcctcg acgtcgcgng cgcgccatac acccgcatcc tgacacatgt cgntatnata 60
tnnnnnnnnn nnaagggacg cgctagtggg ngcatngnag gaggccgncc gttttgaaac 120
cactctgcac nccccnca cncacgcccg cccatttgaa acccttcgan annccnctt 180
ntataccgaa ctcaagctct tctctctcct tcgcaaccgc acaatcgaag aagcacggct 240
ctcctactcc caccacgca gctctctaaa ctcaactggc ccagctgctt ggcccctcaa 300
ctctcttacc agaacacact ctcttctctc acgtgcgtcc aggccatcac tatgtgccgc 360
ccgaatgagc gtcaacttac cgccctgacg ccacctgtct caactccctc gtcgtcttcc 420
ggcaaccaca cactctatgt cgctccctc ctctcgtcca gctcacctcc cccaccgtaa 480
gaccgcgaca ctgtcgtcgc ccgctcgtct tcctccctga cctccacgat ggccccatcg 540
aggcctctgc gacagcacta naaaatttaa aacaccttat tctcacaaga tctaactt 600
agaagtacaa ctgaaaacta ccg 623

<210> 7445

<211> 435

<212> DNA

<213> Glycine max

<400> 7445

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accctttgaa tggccaaact ggattttgat gtcttcatga gagttgtaga gaattctatc 120

cttgacattt aggtactggt cttatgtcat ttggaccaat aacacataat aaatcttcaa 180
agcattgcac ttacgttata ttgtaaggat aaaataacat ctttatcttc atgatcagtt 240
tcttccaaga tccaaacctt attagcccoct aacttcttca tgaaagatgt atatcttttt 300
cttagatttc cacatcaatt gagataatat caaatacact tttgtagctt aagcagtcta 360
ctaattacta ctacacacat atcaagttgt ctaggcaaac caacgtctgc aactttaggc 420
ttaattttat ccatg 435

<210> 7446
<211> 455
<212> DNA
<213> Glycine max

<400> 7446

taagataatc atgcttcggt gtcctatatt ggtgccttct taatcacaga tttgtaagtt 60
gtaattcttt gatttcggtg ttttcgcctt taattaatta attgtttttt tagtactttg 120
taagatagta gcatgatgtg ctgctagctg ttgcctatta gatagtgaca tacattcttt 180
gccgcgatg ctttatattc tatatctata ttccgtacta aaagtcaaaa taaaggaaaa 240
aatatatcta catatatgtg cagtaagatg cttcagcttt cctttcattc atttattgaa 300
gccttaaatt gtttgaagtt tacttaaaga ttgtgaatat taattgtgat ttctgaattt 360
ctttctcaaa gcctcctttg gacactcata tttatttatt tgtcatttat aatattaaaa 420
tatagactta aatatgaatt attattatga aataa 455

<210> 7447
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7447

gcttatcgta atcgattaga caattattgg gatataatga cttgttnttc aggagtctct 60
actttaatca attaccaggt gatgtaatcg attacttctc tctaaaaagg gtgtctgaag 120
tgatcaataa cactctatcg attatatcaa gaatctaatt gaacacattg ttcttgcaag 180
ttatgcagat tttgggaaga atactttatt cgattgaaaa gataatataa tcgatttctt 240

<210> 7448
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7448

cgcnccgggt atgagcccct tgangtgagg cccattgaga cacttgagct tacggcggtt 60
 ttcttatgct gaaagatcca acttattcct tttctgtcag attgaccaca acattttttac 120
 atccgtggca aagcccctat ccttggtgct aacatacacc acccaagtat aaacgatggc 180
 ggtgatttcc aaagatctcc ccagctgatt tgtagaccat attagttgga cgcttggtca 240
 atacatgatg cgggacctaa atgtgtccta gtgcccatac atgatttgca cactcattta 300
 ctcaccaatc tctcgtgat actcgccatt accaacctcg tggccccctc ctgcccttcc 360
 ccaccttcca actacagccc atcgcaatca cctctcctt ccttctagct aaacatgcgt 420
 ccacctcaag tgctacctcc ttcgcttcgc tccccctcct caccgcgccc cgttttcctt 480
 ctcttcgcgc cctcacc 498

<210> 7449
 <211> 159
 <212> DNA
 <213> Glycine max

<400> 7449

tgcaagtggg agtcctcca gtgaccatct tgcggtaga gttgtctatt aaaaaggat 60
 cctgttctgt aaccttacct tctactgcga aagatgttga tggccccagt gcttaagtac 120
 ctcaacaggg acatggaacc ttacctctct attgcgaaa 159

<210> 7450
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7450

agcttataat ttaaaaaaat caaattaatt aaaatataaa aaagcgagat attttccaca 60
 aggctatcta ctttggtact atgtcattgt taccctatgt cggtgttact ctgcgtaata 120

ataaacattn tgtatgctat ctttttcata tttgttcaag tttgattcta cactcccacc 180
 atatcaacca ttatcatact aaactgtttt cttctaataa tggctgcaac aacacgttcc 240
 cttgcatcca tctacgatgt gttcctcaac ttcagagggg aagacacgcg ctatggttnt 300
 actggcaatc tctacaaggc tctttgtgac aagggaattc atacct 346

<210> 7451
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 7451

ttcttaacta atcccagaac aacaggcaag taatcctcaa gagcctgcag aaggtcagtc 60
 agtggtgaac ctctgcaga agaaatcaaa cgatgccgat gcatcaataa attagagtaa 120
 cttattcatc ataaaatcat gttgttgttg gtaaaactaa ccatgctgag tttttctttt 180
 tgttcttgta attgtaggac cttcttgacc agccattaca actatacgcg ttctaagagc 240
 agacaggcgt tccactatat tcttgacaa ataatcacca agtgattgag caaatcaac 300
 aggttttagga atcctcaaac caggaacata tactgaaagt tcaccaatac tcccctggcc 360
 tcttctatct caccagagtc cttcggagct gacaccacac agcccatgtc taaaggctca 420
 ctgtatctgc tgaatgctgg cacagataag ataaagagaa tca 463

<210> 7452
 <211> 70
 <212> DNA
 <213> Glycine max

<400> 7452

agcctcgaag acctttccgt gcctcgacac tcactactag ccctaaggga aaaaccatga 60
 tttcgccata 70

<210> 7453
 <211> 525
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7453

cgcgattgaa aacccttggg annagcggat ctttgaaccc ctccactcgc actgttctat 60

cgaagactaa caacttgctt gtgcaaagct ttaacactgt catcttccta ttttccactc 120
 tgttgggagg cattcggttg gccgttatat aggatgttgc acctgcgccg tattatatga 180
 tctgcgcatt atgcataaac tcgggtcaga gagaaaaaac gtgcttgcca tagaaccagg 240
 tctcaggaat gacgaccctg agagaagttg atatccacgc ctcatcattc aattacatac 300
 ctgtctctac cccgccaccg catgttatgt atgttggatc gtgaggcacc acaataatga 360
 aaagcggcgg gaccaacaca ctacctctaa caccttacca cgctcaaag aatcggttatg 420
 cgcattgcgt tatatcgacg agtgccgagg agatactacc tcctgatcgg cgggccgatc 480
 gtccttatgg tgtcgcgcgg cttataccac ctgcgagaat gaccg 525

<210> 7454
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 7454
 gcatgcaagc tagcagtagt gaaagtagct ttatgtgatg ttatggatta aaaactctct 60
 cttgcggtaa aacggcacgc ctaaagtatt catttcatac tacaagtaaa caggatatatt 120
 cataccagca cgcaactggg tgaagctata actgccccaac aacacacaag gggactcctc 180
 cagcattaac gtgattgaag catgtgacga tgccatacac taatctgatg aattatcatg 240
 tcgtttgaaa gctcgagggtg ctatgccctg cacctacata acacctacat tatatgctct 300
 t 301

<210> 7455
 <211> 600
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7455

catctcacct ccaactgctg atgcentcac ctatttanca tattcttttc cccctcanc 60
 ccnnnnncac ccggccccgc cgattgagac cctgcnannn gcngacattt gagacgcttc 120
 gaacnacaca ccancatgcn acagccacgc tatacacgga gacgactctt atatctacaa 180
 agcaacgatc tatttacttg gcgtactgag tagtgcgach cggcgcttca ctcaacacga 240

tcacaaacct cctcgcgaga taccaggaac acactacgca acactagtgt cacgtcttac 300
 tatctgtact gacaaacatt aaccogtacg atggatagct tatgttgagc caacgcacca 360
 ctgcatgacg attaagacta ccttacggag ctctatacag agaccagaag cttcaacgat 420
 ccaacgaatc atcatgtcaa atccaaaagc gactcggcgc acacaaacaa cggacaccac 480
 acgtatctcc gaatcctttt acaaaccacc aaggaactca gtcgattatt cgccctcaaa 540
 cactaaactt aacctacccc cagataagcg cactaacggc tctggcacgc cttagcccc 600

<210> 7456
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 7456

agctttgatg caacatttgg agagtgttaa tgaatcaacg agatgatgcg ctccatgata 60
 ggttgatca aatggagaat agagatcata atgaagaaga aaggaggaga agagggaatg 120
 atggtgttcc tagacaaaac cgaattgatg gtattaaact caacattcct ccatttaaag 180
 gaaagaatga tccggaggcc tacttgagga gggagatgaa aatagagcat gttttctcat 240
 gcaacaacta tgaggaggac caaaaggatga agcttgccgc cacggagttt tccgactatg 300
 ctcttggtg gtggaacaag ctacaaaagg agagagcaag aatgaagag ccaatggttg 360
 atacatggac ggagatgaaa aagatcatg 389

<210> 7457
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7457

tatgcgcata tttccttaca aacgttctct tgcacaagac attctattaa ccgaaaaaaaa 60
 tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120
 tgtatttgtt acttacatca cacacatctc cttggctaaa ttcacatata tgcatactca 180
 aagcattttg ggggaccaa aattgcacat gtgcacatct tggatattct aatacctata 240
 catacaciaa cctcatgatg aatcttgact atctacacia taagggtgcta catttcatgc 300
 tcttttcaag tttttgctac ctaaggccgc atgcaaattc aagtatattn tcttctgctg 360

gctaaaattg gattcaaatt aaaagggata cattcttttg gtaatgtatc ttctttacat 420
agcatgcaac atatttatgt atattt 446

<210> 7458
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7458

tgcaagctta tgaagcctat ttcgcaatta nttctctttt attcgagtag catctctact 60
atgataccag ttatgaaaac actgcacgaa ttctaaaatg ctactcttag cagaagggtc 120
catttggaac gctcatatag caattcaatt ctaatccata tatcacgtat tttatatata 180
ttcatattcc ccaagagact acttttcaaa tataatttga ttccatcaaa cgtatgtgaa 240
tccacatagt aaaaatatga gagcatgtag agacaaattt gagaacagct gtggctcaac 300
ttgcacccaa taatgagaat gactcttgag ccatactctg gggatacct 349

<210> 7459
<211> 148
<212> DNA
<213> Glycine max

<400> 7459

catgcaagct tcaagaaaaa gatggcctca tcacacgccg cttgtttcag aagggaattc 60
tattattaga cctcccatct ataatggaga gggttaccat cactgcataa gccgaatgct 120
aaacattatt gatgctacct acctcaaa 148

<210> 7460
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7460

gcatgcaagc ttgaggggtga ggttgccggt tctcgggtcc gatttcgagg accgtgtcgg 60
tggtgtttat cgcggatctc cgaaagatgg tgtccagaat tcgaggggtg atgaaaatgt 120
gttggcctct gctctttag aaacgtagag cttcttcgcc atcgccatcg ccatcccat 180

ctccatgcaa ttgccgcact gatcgtaacc tccgaggaat gaatccaact acgcgtctag 240
 aggcaccaag catgtgccac tctcatgtac antttttatg cgtttcccaa gcataagcat 300
 agatacctag tttggttgct cttttcttcc aaggcccatc aaagcccaac tgga 354

<210> 7461
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 7461

ccaatatgaa taacatcttc caacaatcaa aataaatatt tattctataa tgataaaatc 60
 attttcaatt ctttttaaaa aaaattaccc tgtatgaaat tgaaaaagtc aaatctttta 120
 ctttacgtgt tatttcaaaa atctaataatt tctatttttc ttttgcagaa atgaaatgac 180
 agctatacat aaataggaat gacaatgatc aagatttaca tagggctcta tagtattcct 240
 tatataactt ttaaaatatt tattataaaa attaataaat ttatggtttg atttataaat 300
 aaatgacata ttggaaagtg aaaaagatct ttacactatc aatagatata ttactttcta 360
 tatttctcag aaaaggctat atatatatct atattatcac ttaatagtct ctata 415

<210> 7462
 <211> 55
 <212> DNA
 <213> Glycine max

<400> 7462

cgcgctcctc aagacacctg cagcagcttg ttgaagatat gggaacccat cacat 55

<210> 7463
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7463

cgccaccgca atgagccccc tcgaccccg gctcatgaa caccctgcac nncnncnnn 60
 nnnngcacgg acgttgagac ccttgtnan cccncatctt attgtatact caagcttgag 120
 ctcattgttg ctgccccaca cagctcctcg caatttatct cgaccatgtt ctccttgtg 180

ggcccttatg gtttcttggt caagggctct cgcagcggcc gcgccttcct ctcgcaactt 240
ggagcactct ttccggatgt ttgtagccgc tgtctcgaat tcactttgcc gagggccccc 300
ttccgtacct ctacctcatc acctcgctat ccatcaaccg cctccccac tcgcccctct 360
ccccatccgc ccctcccat gccccctccc cccctageta ctctcgctc ccccctcatc 420
ctcactctc tcaactccca ccactacccc tctctgccc ctctctgctc cgcgccggcc 480
ccacccgcct ccgcctatct tcgcctctg cacctcgctc tctccgg 527

<210> 7464
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7464

aattaataat actaaaatta gatagacttg tttgaacttt aaattggtct gatatctagt 60
ttggatatag tttatcaaat tgcatttctt actacaccgc gataacatat attgtagtaa 120
ttacaatggt tgcattatta cattaattat actcgtcatt tgtgtaatat tttttataa 180
tgtcaaattt taccaatcta aattntatta agcagataat atttatataa aaaacagaga 240
caatatgtag ataattagat taatttctta agcatgttat taagagggtc ttattctg 298

<210> 7465
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7465

taagctacac agatccgttt gcattcatca atatatttgc acatttaata tccctataat 60
tgagaggaaa taattaggta gatacaaagc ttgtttcatg acattgcata aatgaaacaa 120
aaatacataa aagaatatgt tacacaaaat atgagcatac tgcacaaccc taaaaaaaaac 180
actagccagt aaaatatcca acacttaatc ctcatgtgac atgtatgggt tatgcagttc 240
aagttccaaa gacaaatggt ccttatactc tacatttaga acttttgtac tttattntc 300
ttggggtaat tctcatctct ccttttggat ttagcgaatc attcagnctc tcaagcttaa 360
ccttggtcaa taccaaagaa 380

<210> 7466
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 7466

gctgaaagcc acattaacca atatgagcaa ctatgcatat ttatctggag gaggcgtgaa 60
 gggtttttgta tagacgcaga tgctcgatac attagaggta atgccatgag acaatgactc 120
 gacgatgact ttatgtcaga agagggatga tgaggctgga ttggttctca tcctagctat 180
 caatgtttac cttaatccaa gacacgacca tacgtttgac tcggaggacg aagatggggc 240
 ccatatacat tcggacaact atgaattgtg gattataaca tgagggactt attagcataa 300
 cggatgtata gatggaggct ttgttttaca ctccaaaag atcgggactg tcttgaataa 360
 tgggtgtacac ttgcaggcac ccaaagccc attcaccttt taaatgacgt gtagatgaaa 420
 tcactaatat cgaacaactc cctaacgact acagtg 456

<210> 7467
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 7467

ccacatctac aatgtttgcg ttgagtcgcc actgtttcta cctcactggc taagctgcat 60
 cctctaaaag gatcctatgc atgcacgcag atgggctaata accacgaatg ttcgctaaag 120
 ttccatccaa tggccctttt gtgcttcttg agcaccggca acaacctctc atcttgttca 180
 catcaatgga agcacacatg atcactggaa atttgatgca atcctacccc gcaagggca 239

<210> 7468
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 7468

attccctttt tgtttactct ttataccccc tgctgacgcg cttaagccat ttactttaag 60
 tcctttctcg cttaacttaa aaataaaata aatttccacc gaacgtttga attgtattat 120
 ccattaactt cggctaaaat aaattccgac cgttcggtcg tgccgtaacc acgttgga 180

tcaaaaagag gtaaaaaaaa tattataata ataatcatac aacatccttt atgtaaataa 240
 agcggataat caatcggaca tttcttcttt gggatttctc attcttaatc gaattgatta 300
 ataactaaag tgaaactaac gcttaaataca act 333

<210> 7469
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 7469

tggacattac ttcttctatg gacgctatat ctacgcgcat aatataatcgt tacgctcaaa 60
 atcgaacaac ggaagctctt gagaaattca aatggtcata accctttcac tcggagggtcc 120
 gattcatgcg cataatatat cgagacactc gaaactgaac aacggaagct ctcgagaaat 180
 tcaaattggc attacttttc actcggagggt togactcaag cgcataatac atcgatacgc 240
 tctacattga acaattgatg ctcttttagcc aatcaaattg gcataacttt tccctcggag 300
 gtctaattca ggcgcattat atatctacac g 331

<210> 7470
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7470

cttaacanaa ggcattcaaa gtgggtggaa tttctagagc atttccctta tggtatcaaa 60
 cataaaaggg aaaaggtaat attgtagccg atgctcttcc tcggcgatcat gcattgcttt 120
 ctatgcttga aacaaaattg attggtcttg aatgtttgaa aagcatgtat gaaaatgatg 180
 aaacttttgg agaaaatttt aaaaattgtg aaattttttc agaaaatggg ttcttttagac 240
 atgaaggctt tcttttttaa gaaaacaaat tgtgtgtgcc taaatgttct actagaaatt 300
 ngcttgcttg tgaagcacat gaaggagggt taatggggca ttttgggtcc aaaagactct 360
 agaaacatta caagaacnat tttattggcc tcatatgaaa a 401

<210> 7471
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7471

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ttgcatcagg atcagtttca gcattctgca tgagatggcg gcttatagcc caaccaacta 60
tcttctctgc atctgcaata tagcaaaaat gttatatgag atatttaagc agcaaatcct 120
taagcacata ctggtagaaa atactagtat gtgctttcga tacaagtcac aagtgttttt 180
gagatctttt ctactggaaa tatagagttt ttttcagtag agaagctctt aaaagagctt 240
ctagccttgt atccaaacag gctctaagtg tctaatacctt aatgcacaag gtctcgagtc 300
cttcacactc caccacacaa cggctcanaa cctataaata aaattaaatg aaaacagtta 360
agaacatcat cacaacaatt atagtctaca cagctcaaaa tatttaacat cttaattat 420
tttntcttt agtacaccaa gtcatgaaca t 451

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<210> 7472
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 7472

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aagtttaaca acctaagtag ttttttatca ttctccatct agctctagta acaaatcatt 60
agatttggtg aagtttatgg gtgcacacag aatatcttac tacttataga tgagaatgaa 120
actaaagctc attagtgtct ttttctctca agattttcca agtggttctga aagctatata 180
acatagagaa atttacaaca gaagagaact tgacggagggt aaagaatatg caattcaaaa 240
gcatcacatg agctcttcaa atcttctcgt atttataggc ttcttcaaca agtaaacgtt 300
gtccct 306

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<210> 7473
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7473

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catgcaagct tccaacatc cagcaaattt catttatcat cacaagctat cacagccaag 60
canaacagag caaagacaga aaactctgcc atacaccacc aaatacagct ttctcactta 120
aagaccccag taacaattcc ttcgttccgg ttcattaacc gttggatcga ctcgaaaatt 180

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ntactggaag tctctagtagc ataagcctac attttgaccg ttgggatcta ctagcanaca 240
 tccagaactc attctgtact actctttcca cagccaatca cacaagcatt tttctgcaact 300
 tgtgcaaaat tctgttgac aatntcacag caaaaatctg cacaaagtgc agatttcgaa 360
 aaccacactt ncnctcatcc aatcttgccc aaatcanatc ctacaagtcc caaatcatgt 420
 atcaatcatg t 431

<210> 7474
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 7474

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 attcatatct cacatgtgtt ggcttattga acttttctgc aatatttgcc caaccaagct 120
 taatgaagtg gtcgtgacgt ttatttccag cattcttctt cacctcttct atgcacactt 180
 tcaacataat ctctgtaaca gccgtaactt ttaataaata aatcagaaac taataaattc 240
 attaataagt aagtaaaaaa aataattacg tcataaattc gcactatata aaccaaatat 300
 taacctagag cagctgttag aaaacacatc ttgttctttt cttctttgtc taacgcacaa 360
 gaaccctaac agaacaatca taggtggagc tttaagagca ccacataccc acaattactt 420
 acggaaacat tt 432

<210> 7475
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 7475

aggcatgcaa gcttagagcc aattcaaacg acattaactc ttttctcgga tgtctgattg 60
 agacttttta tataacgaga tgctcgaagt taaatgttta agctctgagc caattcaaac 120
 gacaataact ttttactcgg atgtttgatt gaggcctgtc atatctgag acactcgaaa 180
 ttgaatgttg aagctctgag ccaattcaaa cgacaataac ttttactcg gatgtctgat 240
 tgagtccgc catatatcga gacgctcaaa attgaatgtt gaagctctga accaattcat 300
 acgacaataa ctttttactc ggatgtctga ttgagtctg taatatatcg agacgct 357

<210> 7476
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 7476

tacacattca acttcgagcg tctcgatata ttacgagtct ctatcaaaca tccgagaaaa 60
 aagttattgt cgtttgaatt tgctcagagg ttcaacatta aatcttgagc gtctcgatat 120
 atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
 taaagttatt gtcgtttgaa tttgctcaga acttcaacat tcaatttcga gcgtctcgat 300
 atatgaccgg actccatctt acatccgagt aaaaagttat ctgccgtttg aattggctca 360
 gagcttcaac attcaatttc gagcgtctc 389

<210> 7477
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7477

catgcaagct tgttcttagc ttcctgaact ctgaagcatt ttaacacaac caatcttaac 60
 atcaatctac ctcaaagact aacatgaagt gacaacttgt tgaacataac aataaaatat 120
 atgaagatgt caatgtaata gtaataggca ccatccatat ccctcaaccc tgtatagcaa 180
 aactagagtg gtattacaca cggaacaac tcgagtgaac aagaacattt ggatggtaaa 240
 ttattgggtt attaacaatc agcaatagtg gttatttttc tctactggaa ttngatcaaa 300
 gcttcctcct tgaatggaac acaggtgaca tgggtgacat ctgggttcatt tctactcaga 360
 ttttttagtat gcctatagct ttt 383

<210> 7478
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 7478

catggttatat cacacatttt atcttactat agcatataac ttttgctaaa gctctattac 60
aacgtagcgc cagtacttat accctataag cctatgattt ggacagccgt ttttgaaata 120
tactgcttgt ctgggccgcc ctagtcaacta gagttcatag aatctctatt gcaactgaaca 180
tacttgctag actcctccac tacactgtgg actagatgct atgtggacag acctatcatt 240
gaaaatagta tgatcgctgc ttgcgctggt gtgtattggg atgactccgc gacacggatg 300
tatagattct atatatacca tctaattgaa tcagcttaca acatcatcgc cacacttctg 360
tcctacacgg ctcaactacc taaaactcta attattcttt ctttaccac ctaggccgga 420
acatcttcat tccaactcag ctcttagtac catcc 455

<210> 7479
<211> 360
<212> DNA
<213> Glycine max

<400> 7479

catgcagcta ttggaaacac tcttgtacaa aactatttta tcaacaaaat gaagattttt 60
tagatgataa aaaaccagaa gtacctccat tgcacaaaga tagtcatttc cgaacgtgag 120
gctcatcgag gaccggctgg tcgaagccct atgcatgtgc accaagatga gcaaaatgag 180
gatgcagaca ttagtggaag agcctttgtg cctcatcgat tactggatgc aagacacgct 240
cagggaaatc aaggaggcca agctcgccag agacatgccg gatccgttct acaccgacac 300
cgagatcaga ggctacctct gcgatttctc ttcgtggcga ggacgcatcc actttgcact 360

<210> 7480
<211> 585
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7480

tccgccctac gtcctctctt cttantgtgn cactactttc cttttatctc tcnnnnnnnc 60
aggcctggca tgaaccnttg annngcggaa catgaaacct tgaannncna naacgataaa 120
nacatttgat accctaggat tccccggctg tcgctgagnc ggacatnttn ttatatgtat 180
cgatcatccac cgattgagca atgagaaaga gagctgtcgt gaatctcttt actgactacc 240
tggacgaaac ctttactctc gtggcttagc gacggctcat acgtgcttct cgaaaccatt 300

ccttacgata ttccacacat tttgagcctc cagaagcgcc ttcataatga tacctccatt 360
 gttacaaccg tgctttgcga gcactagcct tagggaagga cgacctcaat tcgtcatact 420
 tcaacgaaca cgaagctctg accccacttt gtaggaactg aggccatnta tgaacatgaa 480
 cagtgccac gtaaattcga gacnttgaat agtaacacga tatgaaaggg aattctttat 540
 gcagcaagaa ctaagcagtt acttcaacta aagggaagat acacg 585

<210> 7481
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7481

gcatgcaagc ttagaggagc actcanaccg gttgtattta cttctcaagg cctagactcc 60
 aaagagtccg ccaaggtctc tccctcttga ttaggtccaa ccataaaac tttntagcat 120
 gcagactcta tctatgaatt gtacaaaaca cagcactcat caattattct caaaataatt 180
 ttaactcatc gcacctcana gtgatttaac tcatcggggt cccatagtag accttatcac 240
 aatactcgtc gtccttaaag gatcttacag tagtgtgatt gtatgggttca tagctcacia 300
 ctcaatgcac acaacatctc aatacatctg tgatctcaca atttaacaca tactcaactt 360
 atcacatata cccaatgaaa ttctattaat ttttaaagaa aactcttctt atttatntga 420
 tcgaaaatgg g 431

<210> 7482
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 7482

tgagatacta tatgtgaaat gagataattg attatcccat tctataattg attgtcatgt 60
 ttctaacaat gcataacaaa gaggaatttg aacgaattaa tcgattatcc catttgtcaa 120
 ttgattaaat ctgttttatac tgttaaaact atgtataccc tcaattgtcc attctcatta 180
 gtgactcttg atgagatctt atcttttgaa aaatactttc taagagtcac ctaagggaat 240
 ccctctacgt ttcaataaga gattcataat gatcaagatt cattcattat tcatcatgcg 300

ttgagcaagg aaagaaaggc ttgaagatat tatgatctac acattcacgt gcattcaatc 360
 ttattttgat tctttctagc ttctgac 387

<210> 7483
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7483

gtccgctgcc atcttagacg acctgcaggc atgcatttct tccacatcat ccaagcgaaa 60
 caacattact tctgtcaagc tatcacagcc aagcanaaca gagcnaagca gaaactctgg 120
 taacacataa ccaaattacg ttttgtactt aagaccgaga acaattatcc tccaatcgat 180
 accgtggatg acccaaattt acagaagcat agcgcatagc tacattggac cgtgggacac 240
 tacaccatca gaatatctgt ctacttttca agcaacaacc aatctttctg ccaagtaaag 300
 ctgtgcccac ttaaagcaaa gtgataggca aatgaaaaca ctctttatca agtggagaac 360
 cctaaatcaa cctgaaagag tc 382

<210> 7484
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 7484

agctttagt tatagtcagt catattcctc cattttaaat gctattatgt acactaatta 60
 gaattatata taatagaatc ttgattcttg gaaattccat aattttgaat aacctatcaa 120
 tatttctttt tttttttatc tctatcttct tattacatca tattacatat tatacctata 180
 tttttctatt ttgtttaaca cgctttctat aagtattaac cagcatgctc tctttaagta 240
 ttaactagca tttggatgtg cacaaatatt tttcctatac catattaaca cactctacga 300
 aaaagacaac ggatgactta agtg 324

<210> 7485
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 7485

ggacaagtac ctaagaatat ctgttccatg agattctgaa gttttttcaa gggctcttctc 60
 actctaactt aggcgtctaa cttcacccgc tgttttcaat ttatccttca ggcaaccctc 120
 gagtttcgta ttatggatag tgattatgtg cttgtaatca ggtgaacaca cctgatatgg 180
 tttgcgggca catctacatg cactttcatt tccctcatga tgatcac 227

<210> 7486
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 7486

acccgtcaca tgtgttacta ggtgttgatc ggacgatggc gcaaaacaac tatcgacatc 60
 cacaaatcac gcatgaacgc accatcccta gctgcccacc cttaactgag ctcacgtact 120
 cccacgttgc ccttatcctc attcctttaa caccagagcc gcatcaagct ctgcaagcaa 180
 tacaacatcc aaacatcatg aactatcaga ac 212

<210> 7487
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 7487

tgtggcaggg cggacttcct tcactttcct gtcttctacg cgagctctga ccactgttct 60
 tccttcccg c gatgcttatt tcatgtccgc ctgagtgggc ttatagccta taccatactt 120
 tccacgattt ccttgtgtat ttatcaagct aaatatgccg ccgctgtttt tcgctaaacc 180
 catcccgggt tcataaccgc tcccacaacat aactcggggc atcattaccg ctgcatcgga 240
 cagacaaggc tgtccatata tggagtccac ggacgaaatg ctgacc 286

<210> 7488
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7488

cttgagctt gtccttatgg ttattaatgt atgaattggt gcttttgcac ctcttccttg 60

ttttgttata tatctgtttg cattcgggat tccaattttc atcaacagtg gttaccctac 120
 tcctcacgtg aagtggaact tgtgggttat ccacaagctg ctgcttacc tagtttatgg 180
 tntcactactg ttcattgtatc attctagggtg gagagaaagg ttacctgggt agtgtcctgg 240
 attgttatat tatttttatct ttaattagtt ttatgatagc atagtttatc ttctctttt 300
 ngcagcaagg cctgcttact ataagtatgt taccattatg ttcattctga atgcaattgc 360
 gctgtttgct cgcggcatta ctggaaacgg tgctgctttc ggattctggg tagattcttc 420
 tattctatat ct 432

<210> 7489
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 7489

cgtaattata agagttcaat ggtcactatc tattagtacc aatttattgt ataataact 60
 attggattag aaatctatct tttaaagtaa ttacgtttaa ttgctaattt ggctccttata 120
 cttgcacacg atctttacat attagtctct acacctagaa gctacttggt ttcgctcgca 180
 tgcaaacactt ttttaattcat tttagtacat actatcctga acggtaggta ctacaagaga 240
 ttaaaaagtg tatgtgtaga cactaaaacc aataatttct agcgtaaaac atgaaaattg 300
 tgtgttataa agatcaaata agttattaaa gcttgtcatt atcacagaag ttaacacttt 360
 taccatatat catgacaatt tatgatcgaa cgacaatata acaaccotta tactat 416

<210> 7490
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7490

gcttctaaag atacagattg taganaatag aaactgaaac ctctcccca tgacaattac 60
 ttctgtttct aaagcaatgc caggaattta gagaanaatg aattggaata cactggcatt 120
 atatatcaaa cagaaggaga aaaaagatct tanttagcat agatgactca attgtttaca 180
 tcagcagcca ataggaaaaa caagcgatgt cttgggtgct gacaagataa gatgagcatc 240
 aatcacggta gaaagcaaaa caagcaagca aaagtgcaaa actattatga ctatcctgaa 300

aaaagatgca aaattacccc ctcccccaat ctctttaact atagcagaga ttgaaatagg 360
 agaaacaatt actaacctct tgtca 385

<210> 7491
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7491

nggacagttc tcaccttgca agccagtttc gtgggactga gttatgccct aagcccaaatt 60
 actaataagt acaactactt catgggtacc catccaaaca tcccttttgt agggaagggtg 120
 ggtagtcaa ctcttgatt ctgcatgtga aagtcattaa gatgttgga tttgtatcct 180
 aaagtatgtt aaacgagctc ctaaaaaag cttatgtatg aagatcaggg acgagcatag 240
 ataataagat actcataaat gccaatcagg catgctctcc tacttacaaa caatcccttt 300
 tttgggaatt gtgtactcat tangggtaat atgatagcca ggaagaataa gaaacaaaaa 360
 caaggtcaca agatccagtg caaaagcaga ctggcaaatt atggcttcat ctacttgcta 420
 gctcattnga atgaaacaac tt 442

<210> 7492
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7492

gaattttttc tggctatttt cttgaagttt gncggacctt aataaaggta tattatgtgc 60
 atgttataaa tgatgcgact tggccttggg tgaactacaa gcattatcga ttaacattag 120
 ctattacgtt cctcattttt ctataatata cgatgatcag agtttgggtg agaatatgat 180
 gaactacaag catttaccac ctgctactat ttcatatcag cttcttaaag agctacttca 240
 tattttttat ttggatatcc ttctgtcccc acacctgttg ataaaatgaa att 293

<210> 7493
 <211> 268
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7493

atcaataagc ccattntaat ttatgaaaaa caaatatttc attttctatc gtatatatat 60
 ttataaaaat ctactccgat gatatacataa ttaccagaac catgataatg atggatgatga 120
 cgacaacaac aacgacaatc ataattatgg acgacaatag tgatgaagac aacaattata 180
 acaaggatga caatcatgat ggtgtaatat cgatggcgat cacgataaca gtgacagtga 240
 ctatccttgt ggtggtggcg gtgatgat 268

<210> 7494
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 7494

catgcaagct tgaaagtaag ggtgatggct attgttggtg tggattatgc tgggggtgtgt 60
 tagtacttct gttccactaa tttggagtgc ttattgtttc actcaccttt tgtgtatata 120
 ctataatata ctatatagca cttcagctcc tcttacgcat atctatcggg ttgatttaaa 180
 gtttttaaaca ttattaagtt attaatcaaa ctcatagaat gtgccctttt cttcattccc 240
 acagctaaag tcgtggttga acttgcaaaa tccagactaa tccaagctgc cgcgctatta 300
 catccatcga ttggctctgt ggatgatatc aatggtatga attctcaata tttatgttat 360
 ttcctacatt tcatattggt tcacagaata ttactt 396

<210> 7495
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7495

tcacacataa tgaattcggg cctatccaac taanataata tatataatac aaataagaaa 60
 taaaagtcta tgatcagcag ctaactttga tctcactcaa caagacaatt atctctttta 120
 aaatgtccgt agtatttgcg taactgagac tatccaattc aaccaatca aacataattg 180
 aattgggctg catatcaaga ttaaactcaa gtcaacttga actacttacc ccgataatgg 240
 ttaacctttt ttcacagctt catttttctc tgctccaaaa gacaacaaat attaaccagc 300

tcaaaaaacg aaatccggcc aacttggaag tgccacagat gtctgacact tctcacatgt 360
tctccacgta ttccgcattc gtagctgagc gaccaattac aatacaatag atgtcaattt 420
tatcatcagn agcaacacac ttaaagagag 450

<210> 7496
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7496

cggcatgcaa gcttgtaaata atgtaacaag ggtactagga actnctctc acagagtga 60
gcgagagata acttttgtca tcatgctgat aaatccctta ttgagtatgc tttgattcgt 120
ctggcgcccg atgattatca attcgggaatt taagagtgc gttctctatt atatcaataa 180
gagaacgccc ttgtttgttt ttctgacgcc actccgtctc atatacagta tcgatataca 240
actatgctta cgttggttgt gtgcacggct acacggacat atggtgttac aagttgacag 300
ttagatattc tctgcgaacc aattgtattg tatgtaagat ttttgcttgg tcttattctt 360
cttgacact tgcttctctt tgctcgctgc actgttctc ctattctgat cagactttct 420
tgtttttccg 430

<210> 7497
<211> 586
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 7497

tctctccctc tcaccttcac gccacnttca ncttcanttc atctnnngtt ttctnnnnnn 60
nnncnaagg gacgcgattg acncccttg catcnacgtg acacttgaga tcatttcaac 120
tncnacacgc ttcaccttgc caggcatttc tcaggagact gattttattt cctacactcc 180
aatacttata tatacaacta ctccgatggg gaccgatcat ccttcctttg atggaggtgg 240
gatacttact ctgcgattct gcttgctgaa aacacattag gaaggtgcga ccagcatgct 300
aaaccatggt aaacgatctc ctatgataac gctatgtttg actatcaccg cctagcatat 360
acaataacat acctcataca tgccaatcag ggctggctct ctacttacca acaataccta 420

tttttggaat tgtgtactca atacggggaa catgatcgcc acgacaaata taaaccaacc 480
cacgtccaag atccagtgtc aagcagactg ccaaacatgg tttatcactt gttactcaat 540
gaaagaacac ctttgacac gtcattcaga agcttgtaaa tgccccg 586

<210> 7498
<211> 358
<212> DNA
<213> Glycine max

<400> 7498

catgcaagct tctcggtca tactgggaat acctctagtt atcacccgag caacctaagg 60
caccaccca gaggggaagct cccaagtgc caactccgaa cagactcga ccggccggta 120
attccaacac gacgaggaac ttccctccga ggccatttcc agaattcacc cactcccaa 180
tgacgtacga agatcttctg ccatccctca tcgccaatca tttggccgag gtaactcgaa 240
ccccctttcc cgaagtggta tgaccctaac gcaacttgca agtaccatgg ggggtgtccac 300
gggcattccg tcgaaaaatg cttggccttt aatacatggc ccacacttaa tggatgct 358

<210> 7499
<211> 216
<212> DNA
<213> Glycine max

<400> 7499

agcttggttg cataaacttt ggtgacgaaa gactattaaa ttgtaaccga cacgctcgaa 60
gaggtaccac aatgcggttg cataaacgag caccgcaacc gttccacgc caattattca 120
caacaccaca ttatattagc aactaagcct ttgccgagaa cacgatgaaa ggatgagata 180
cttaggttat gccaaagattg tcagaagaat gatgaa 216

<210> 7500
<211> 380
<212> DNA
<213> Glycine max

<400> 7500

tgtctcagt tttatgagc acggagacca acatgctagc tatcatcgct aagtaccaag 60
aagagttagg tctagccacg acccagagc atagaatcgc ggacgagtat gctcaagtat 120

acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcagccatgt 180
ggatggatcg gttcgctctt accttgaacg ggagtcaaga actctcccgc ttgttagcca 240
aggccaaggc gatggcagac acctactcct gccccgaaga gattcatggg ctccctcggt 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tggtctctca gaccttgact 380

<210> 7501
<211> 382
<212> DNA
<213> Glycine max

<400> 7501

acactgtgtt catgctctcc caacagcaca tgtataactca cgatcccaat cagacactat 60
gctagatggc acaccatgta atccgacaat atcactacta tacacggagg ccaacttctc 120
cacggaaaat atgacactaa tgggaataaa gtgagcagac ttggccagcc tgtcaacaat 180
aacctatata aatcaaactt tttgggttta ggtaggccta caacaaaatc catacaaata 240
ttcgccctct tccactgggg tatctacaag ggttgaactt ccctaaagtc tctggcgttt 300
catcttacc ttctgacaga ctaaactgc atacataaac tcaactaacct ctctcttcat 360
gttaagacct tacaacagga tc 382

<210> 7502
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7502

ggacaactcc aagaccagtg tggacttctt cgggtccact atgtgtcttg caaatgcat 60
ccctgcaaac aatagatgaa atcagaaatt agttgagcga tgtgcatact tacctatgtc 120
atgatgacgt gaccttgccg aggggaaacg ggcaccctgt aggactacag agggccgtaa 180
ccagagctgg aaaccctatg gccctgttgg acttctccgg gtccactggg tgtctttgtg 240
ggtgcgattc ctgcaaataa tagatggtat cagaaatcag ttgaaccacc atatgtatac 300
ttacctatgt ctcatggca tgacctcact gngggaacgg gcaccctgta agattgacag 360

aggccccgtaa ccagagctgg aaac

384

<210> 7503
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7503

agcttctagc caaatggact taccttgaat taattccttt gatatccctt ttgagccttg 60
tttccctttc cttgttntga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atatccttaa ggaattntgg agctttggaa ttgttttggg aataagtgtg ggggggtttt 180
gtttcattgg acaacttgtt ttgttgacta tgcttcatga tgtattttgn gccatacttg 240
atgtacattg tatanttggg aaatgttgga catgctgaat gaaatgttgt ttctcanagg 300
ctagtttaaa caacaataaa aaaaaaaaaat ttcgaaaaaa aaaaaaaatt cgaaaaaaaa 360
agcaatagag tgagtga 377

<210> 7504
<211> 358
<212> DNA
<213> Glycine max

<400> 7504

ttaagatgag aagtcacgc ttagcaacac aactcccta taatagctaa gtcacccct 60
atgccagaat acatgaaaat acaaaaaaaaa agtcctact acaaagacta ctcaagatgt 120
gctggaagac aaggcaaac cgtatactac tagaatggcc aaaatacaac gcccaaaaga 180
aggaaaaacc tattctaata tttaaaaga agagtggacc cacccttggc ccatgggctc 240
agaaatctac cctgagggtc atgagaactc tagggccttt tttagcagct ctagttcaat 300
cctcttgagg tcttttatcc aataccctcg cgagtaggat tgcacaggt atattgca 358

<210> 7505
<211> 126
<212> DNA
<213> Glycine max

<400> 7505

atagatgtta tcgactgggtg tgagggtgaga gtttgtctca aatttacctc attctaaatg 60

tcaactcttta aacctagaaa acccattcga ttgacgggtg tcggacacct atattctgtg 120
 ttgccg 126

<210> 7506
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 7506

actttcacia tgaaagatta gccaaaggaa gacaccacia gggatgatga taaccctaa 60
 taagtccgaa cgggttcaac cttcgaccta gagaatactc tcacaatata caagtatttg 120
 ttgaaaatt caagttattt tattccatgg taatttcgtg tacatatagg caaccaacct 180
 ttaattattc taaatgcatt ttaattcatg aaaagacacc aaggctatcg atcactaata 240
 taaataaata aaacaaatac aacttta 267

<210> 7507
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7507

tgtaggatta tggngtatcc atcacatgtg gtactagggtg gtggatcgagg gagggatgcac 60
 aacaattctc cacatccaca aatcacgtat aaccacccat cccctgttgc ccacctccaa 120
 ctgagctcac gtactcccac gtagccctta tccccgttcc tctcaacgtc gggatcccat 180
 caatcctccc aagcttccac aacatccagg taattccaca tccaatcacc atggactaac 240
 aaaaccaagc aaaacagagc anaggcagaa aactctgccc aaaacacaaac tcanaatcac 300
 agctttttcac atacaaatac cctagtaaca tttccttcat tccaattcgc taaccgttgg 360
 atcgactcga anatgttact ggaagtctct agtacataag tctacattnt gaccgttggg 420
 atctgctaac aaacatccag aactcattct gtactactct t 461

<210> 7508
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 7508

catgcaagct gtatcaccat cacttagact ttgatacatt ttttaataatg acacgtaatt 60
cgcctcacac aatgcatggg tgttcctcct acgaccatag caaaccacta atcacactaa 120
gagtactaaa ctgactaaga cgtgggtctta gaagaatoga tactctcctc ctcaaacata 180
tactccaact accttagaag tatctgggtac tctcgaact cctcggacga catgtctgca 240
tgggtctcctt gatctgttat aacctctatt acgtgcactt gctccatgtt gtatcgacaa 300
acgttgcccc gcccatcata ctccattgga gtcaata 337

<210> 7509

<211> 302

<212> DNA

<213> Glycine max

<400> 7509

aagctctcta ttgatatcta ttcaaggaag ctacttattc tataaataga agcatgtgta 60
aactggttg taactttgac gaatgagagt cttgagagat acaactcaaa ggtcaagata 120
ctctaccttt ctgcatgctt caatatcgtg cgcccccta actgtttatc tcacgtctct 180
ttttcctcca ttgagagcac cctgtccaag catcttatcc aaagatcadc ttggtggtga 240
agctccttct tctcatggct tattccctaa cggatgggtga catctatcac ctggtctact 300
tt 302

<210> 7510

<211> 62

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7510

tatgcttgct tccatactgc atacattcta tntttattgt tcgcatgtga tgatcattca 60
tg 62

<210> 7511

<211> 544

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7511

gactctgata ctccttactc aagaagcgca cccttcanca tnttatcaca ntgcgcagct 60
ttaaactctc ttaatgtgtg tgatttgaca ctccctcggg cagtagtcca ttcctgatgg 120
catatccacc tcctcggatg aattctgcaa tgtcctcaaa agatgagaca ctagcaagct 180
ctcttgagac tcgagatgtc cttttgatgc atnttccctt acttgaccac ttttgagcta 240
gtatgataaa tacttcgatc cttcctctgt gctttgtgaa aatgaaagaa aaaaagagaa 300
agaatgtttt tcctgttgtg tagtaattaa tccacctcca tctatcagaa ataaaataaa 360
atacaaaggg ttgcgataaa gatgagacaa aatttgata gctgcctata agaaatagcc 420
accctccta ctcacaatgg aaacggtgaa ttatttaatg gatggcgaat ggaagacccc 480
tcctcacatt ttaatggaga ccctgtgtcc tgttttatct ctcctacatc tcctccacc 540
ttct 544

<210> 7512

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7512

gcattctatca tactttctctc catattactg agtccttcat aaaaatgttg gagaagaagc 60
tgttctgaaa tctgatggtg agggcaactg gcacatagtt tcttaaactg ctcccagtac 120
tcatacaggc tctctccact gagttgtcta atacctgaga tatctttcct gatggctgtg 180
gtcctggaac anggaaaaaa ttttctagaa tactctctta aggtcttcca gctcgtgatg 240
gccttgagc 250

<210> 7513

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7513

ccgttcggtc gtgccgtaac cacgttgga atcaaaaaga ggtaaaaaat aatataataa 60
tcaaaaaata tctttttagt aaaataaagc ggaaaatcaa tcggacgttt tctctttggg 120

attttctcatt cttaatccaa ttgattaata actaagggtga aactaatgct taaatcaact 180
 cgcctagtca agctcgtcca caaaaatagg cttttgaagt atgtcatttc atttcctcac 240
 taagtanaat ggatcattnt aacgtccacc ctttataatg atcactctta 290

<210> 7514
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7514

tgatacaatg attaatactt aaatgaaaaa taaacataca actaatgccc caactgtccc 60
 atgtccatac aaatttacia caagagacac ctataggaga aaagcnaatt acaacctctt 120
 ccacgtgcct actatgggtcg aatgatattg ttattttatcc atcactagca tataaatatt 180
 ggtaagacta ttcatacaag 199

<210> 7515
 <211> 236
 <212> DNA
 <213> Glycine max
 <400> 7515

caaaatgccc tccttttcgag atttggagca gaaatgagta ccaaagggtg gagctttgtt 60
 ggggtttcaa tggagaatga gggaggagaa aatggcaacg tgagagagag agagagctgt 120
 ctgaaaaagt gtgggggctg agtgatgaga gagaaaagct ttttggtttt aaataaaagg 180
 ttttctcttt tttttttcta ttattttatc aagctctgca catgtcccta ttgatt 236

<210> 7516
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 7516

ttcgttaacc ggtggatcga ctcaaaattt actggacgtc tctagtacat aaatatacat 60
 tttgaccgtt gggatctact agcaaaccat aaaaactcat tctgaattac tctgtccaca 120
 accagcaaat acatagcatg tttctgcaca aagccaaaat gctgcataag tgcagatttc 180
 gaatatcaca ctttccctca ttcaatcttg cccaatcaaa tctacgagtc ccaaataatgt 240

ttaatcttgt taaaccaagc

260

<210> 7517
<211> 205
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7517

cttgatggat cattgcatat tgggtgtcta caccattcaa gactttcctt ggtgaattga 60
ttggcattca tgaagaggaa tctatataaa ggaaacaatc acattacatg tgtctggact 120
gatcaaaaga tttatcaaat cagatggata tagcaaaaca gtgatatatg ctgatattat 180
nttagttgat aaatatcaaa tgctt 205

<210> 7518
<211> 211
<212> DNA
<213> Glycine max

<400> 7518

catgtgatgg gtaccccata atcctacaag cttgagatga ggaagtgtag aagggtgaaa 60
cttcctgctt ttattcggtta accacaaagt ggtacctgta gatatgtcgc gggggtcagg 120
agaccttggg gacgtcagggt ggggtgctat tgcccataac caagcttgac caatcccgac 180
ccaacccggg catagtcggt ctttgagacc t 211

<210> 7519
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7519

gaatctttct tagatattgg agaaaaaagt ctctntgtaa tctattcctt ccttttgagt 60
aaatccctta gcaacaagtc ttgccttgta tctctcaatg ttgcctaata aatcccgttt 120
ggtctttaa atccatttac atccaatgtc ctttgcccca ttangcatct ctacaagggt 180
ccaaaatttg ttactgtaca tggaattcat ctcatccttc atggcatcat accataaatn 240
tgactcttta caactcatgg ctngatcaaa agtntaggat cattttcagt tacaatatat 300

agtcagattc ttacaaatat acaatataat cact

334

<210> 7520
<211> 156
<212> DNA
<213> Glycine max

<400> 7520

ttgggtggcg ttttgagaa gaggagagtg aacaattgtg tttttctcgt tgaggaacgt 60
atttataatc tacagatctc gcttagtgat ctcgctcttg taagcaggag tccacttttc 120
tcgctcagcg tgcaaattct cgctcagtgc aacttc 156

<210> 7521
<211> 268
<212> DNA
<213> Glycine max

<400> 7521

gggcggagta ggtgtctgcc atcgcttgg ccttggctaa caatcgggga agttcttgac 60
tcccgttcaa ggtaagagca aaccgatcca tccacatggt tgcctcttgg tgtaaagagt 120
cgatcacctt tctctagcc tctttttccg catatacttg ggcatactca tccgcgattc 180
tatgctcgtg gaccgtggct agaccaact cttcttggta cttggcgatg atagctaaca 240
tgttggtttc tgtctcgcat agatgctg 268

<210> 7522
<211> 216
<212> DNA
<213> Glycine max

<400> 7522

cagctaagcg cgtgctctc tataacttaag atgcatcatt ttagctaagc tggccagggc 60
caggcttagc gagagttgaa gcttttctaa tctgcaggtc tcactaagca gacatactct 120
cgcgctaagt cgagtttctg ttcaaaaaaa aaaattggtt tcaagtttga aacgtcggct 180
aagcgcacgt gttcactaag cgagcctagt tgagaa 216

<210> 7523
<211> 211

<212> DNA
 <213> Glycine max
 <400> 7523

aaaatctgaa gatgaaggag gaagagtgtg ttcattgactt ccacatgaac attcttgaga 60
 ttgccaatgc ttgcactgcc ttgggagaga ggataacaga tgataagctg gtgagaaaga 120
 tcctcagatc cttgcctaag agatttgaca tgaaagtcac tgcaatagag gaggcccaag 180
 acatttgcaa catgagagtg gatgaactca t 211

<210> 7524
 <211> 89
 <212> DNA
 <213> Glycine max
 <400> 7524

ttcaactact tgataccttt cacgtctatc ccttttaact tctttctggc cttcaacgcc 60
 tatcctttac tcctaccccg acacgttca 89

<210> 7525
 <211> 200
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7525

acatgaaggt aagctgcatg catgtgttca gaggagtgtt tttttctatc cgaaccatca 60
 aatcgtaacg tgcattctta attgtccaac ttaatgtctt gaatgcttca taggtgctag 120
 attaggtact cttgtcataa ctgctttaa tnttgatttg ctggaacttc acaataatct 180
 gttgcattct tggggaaaga 200

<210> 7526
 <211> 248
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7526

aaagatgaat tcaagattca agagaagaaa tcaagaagac ttcacaaggg aagtattgaa 60
 aagatttttc aaaaaacaaa catagcacag ttttggtttt caaaagagtt tttctcaaaa 120

ttttctaagt taccagagtt tttactctct ggtatccgat taccagtggc aaagtttgat 180
 ttcaaaagtt ntcaactgaa tntgcaacat tccaattgat ttcaaaatgg tgtaatcgat 240
 tacaagat 248

<210> 7527
 <211> 156
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7527

tgggtctgta gtcacaaat gactggggat gtttaatttt gggaatgaga gctatgaagg 60
 aagcattact gcctctaggg aaactgccat gtacatggaa ttcacaaaca aatcttctga 120
 agtcagctnt cagcatatcc canaattctt taatga 156

<210> 7528
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7528

aacaatattt ggggtgttctt atatttaggg atagtctaag gggtgtgcca ggagtggcct 60
 taagaatatt tgtaaactag aagtggtagg aaagaatact tggtgtaatc aagtttgatt 120
 agtggaaccc tctactggta ggtaaaggag aactagacgt agcttagggt gagtgaacca 180
 gtataaaatg aagtattggt gctgctattc attagcttat taaagtattt cattgtccat 240
 tactatngca ctttgcacac aagggttttta ctgaaagaca agtntgcacc tcattggaca 300
 cagtccacct tttgtcactg acgagggttt tataacttgt tattatacat cttcatt 357

<210> 7529
 <211> 253
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7529

tcgattacca agtgacaang gtttgaacaa acaatcaaaa agatgtgaac tcttccaatg 60

gttntcagtt tttctaaagg ttataactct tctaattggct ttcttgacca gacttgaaga 120
gtctataaaa gcaagacctt gacttgcatt ttgaaaaaaa ttcattacaa tctttgacaa 180
cctttacaaa caactctttc acatacatct ttacaacctt tgaatctctt tgaacttctt 240
cttcttcttc ttc 253

<210> 7530
<211> 284
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7530

cagcatgagc tagaaccagg aaatgatcac tcatatgaag ccaccatcgc tggagctggt 60
gattgtaaaa aaagaagatt agagacgaga tccaatgagg ttgctcatca tggaccagt 120
ccagcgtcag ctgatgcact agttccagga gtggatccat cttcacctca gcacgcagca 180
gactcttcca ttctgtttt agagatacat gagggccaga ccataccagt tctgcctttg 240
gacactnttc cttcagctac tccagtatga catctaacag atga 284

<210> 7531
<211> 197
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7531

ccattcttgc tttccaggaa ttcatagttg gntccatcta ggattggtgg tctgttcact 60
ggctctcctt ctttctccat gttcatcaga atttatctcc ctagatctca ctctgtgatt 120
tcgagtgttg gctctgatac caattgaaat tctgatacca ggggacagat gtcgtaccgg 180
atgtcacgac atcacgc 197

<210> 7532
<211> 107
<212> DNA
<213> Glycine max

<400> 7532

tctactttat catactttac acgcttgcca ttatgacatt ttaagcattg tgaaacgatt 60

taaagtacaa tctctctacg tttgctccaa cttaaaagaa aagaagg 107

<210> 7533
 <211> 490
 <212> DNA
 <213> Glycine max

<400> 7533

tttatgggat cttttatgcg tctgagctca ttgagatctc gtttttgttg gactcaaagt 60
 aatgagaggg actcttattt taacattagg tgtaacacaa ctggttttga atgtgggtca 120
 aatcaccttt gctctatagt ggccaaaata ttaggccaag gtctttggga ggttggttta 180
 tccctacata taagatgttt tacgaatgtg tattacttga ctttaaaatt tgaatatatt 240
 atttctcttc ctcgaaacga cttattctct tagccctcca cctattagta aggtttgtta 300
 cctttatata tcttctttct tataatctct agcttcatt tctagtaatg tccctcattt 360
 tctggatgtt tacatttctt acttttcttt ttgctagtct gttatgctaa ttgacgcact 420
 gtctctggcg cataagcatg tctggttacc tatctattgt actctatata tctagataac 480
 cacttctacc 490

<210> 7534
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 7534

ttatgacaca tacgtatttg cacacataaa aattttgtgt gaaacatttt acaacaccta 60
 ttcatgtaca tatttttttg accaaacctt tcaatgctac attctatata tatacacaca 120
 ttctttggaa ggcttttttt agtacctact cacaaatata catattttga aaacactctt 180
 acgtaccca tccaaacttt gtaaggcact tcacgtata tatattcata tatgc 235

<210> 7535
 <211> 182
 <212> DNA
 <213> Glycine max

<400> 7535

gtggctggac aactaccaag cagaagcgag acttggagga caccaagagg agcaacatag 60

gaatcacaat gcagaaaaag aagagacaga gtagacgata gaggaagata gagacacatc 120
catccaagat atgatcgaca acctccacaa gaacaagaac ccgcccagca aataaaatgg 180
gt 182

<210> 7536
<211> 229
<212> DNA
<213> Glycine max

<400> 7536

cattgtttca gaataccaca taggcctaag gccatccctt acaaccctc aactctaaca 60
aatcaagcat aaaaaacctc aaaactgccc cacaaatatg agcacattct cacaatttag 120
agcaccaaaa gatgaacaaa atgcaccaat ggaaaagcta aaaacttcag gattgaatac 180
ttacttcgtg gagtgagtag gaatacgaac aatgaaaaca aaatgcgac 229

<210> 7537
<211> 312
<212> DNA
<213> Glycine max

<400> 7537

atatgacta atgattgatt gaaatccaat aagactcaat caaagcctaa taccacttta 60
gtgtaattaa aaccaataa gaccactat atgacttttag tgtaacatat tcatatgcaa 120
tactgatggc ccaatcaagg ctcaatatca ctttagtgta acatatgcac taatgattca 180
ttgaaacca ataaagccca atcaaggact aatatatgac tttaggccaa aaaaatacaa 240
taaccaaagc ttaccattaa ttaaaagtag tagtgctgt cacatttggtg cacatttaaa 300
cacttgtttt tt 312

<210> 7538
<211> 181
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7538

acttttggca ctttatgact tagcctcttt ttcacctgaa attgcacata tttcatcatt 60
aatccaatg tacatattct agagatagct ttctccataa aacaggaatt atctacacaa 120

ttcactacaa aataaccact aaatggagaa ctatacaagg tntggaaaat gttttctata 180

c 181

<210> 7539

<211> 158

<212> DNA

<213> Glycine max

<400> 7539

tttaaacatt atggacttgt catggaattt ctacttatcg agagcgaatt aattgtagaa 60

gacacttact gtctatatca cgtgaattat aatagaaagt tctgcttaca taagttctaa 120

ccacattcaa agtaaaaaac aatttctatt atagctat 158

<210> 7540

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7540

tcttttctct taacaccggg tcccatcaa tcttccaag ctttccaac atcaaagtaa 60

aacgacattc aaacagcaca agctattcac agtcaagcaa aacagagcaa aggcagaaaa 120

ctctgtcata acaccaacca aatcacagct tttctcactt aaagactcca ataacaatgc 180

cttcgttccg gttcattaac cgttggatcg actcgaaaat ttactggaag ctttagtaca 240

taagcctaca ttntgaccgt gggctacta gaaacatcag aactctttaa atactctttc 300

cc 302

<210> 7541

<211> 276

<212> DNA

<213> Glycine max

<400> 7541

ataaataaga taagggaaga gagaatgcaa acaccaatth atactggttc agccacttcc 60

cgtgcctaca tccagtactc aagcaacca cttgagattt ccactatctt tgtaaaatcc 120

tttaciaaagt ctgaaccaca cagggacaac ccgtctcttg tgttcagatg ctttacaaca 180

agagacttac agtctcttaa ccaatctcat tgaataagaa gaatggaaga agaattctct 240
tcttcagaga agaatattac aatgaagatc atgtaa 276

<210> 7542
<211> 169
<212> DNA
<213> Glycine max

<400> 7542

ccttgggaac ttatcaggct agttatgccg ccgttgggtct tgccataaacc catcccgggt 60
tataaccgtt ctccaacata acccggggcca tctataccgc tgaattcgga cagacaaggc 120
tgcccaaaga gggagtctca cggggagatg ctgaccacct caaaagact 169

<210> 7543
<211> 236
<212> DNA
<213> Glycine max

<400> 7543

gtgggtttgtg tgacatggga atgcttgatg aggctagtaa gtatgtggag gaaatgttgt 60
ccatagattt ttctcctcat tctgctgttg ttcacgcctt ggtgaagggg ttttgcaatg 120
ttggtagggg agaggatgct tgtggagtcc tcaccaaggc actagagcat ggggaagctc 180
ctcaatcgga tacttggaatg gccataatgc ctgtaatatg tgaagaggat gatgat 236

<210> 7544
<211> 362
<212> DNA
<213> Glycine max

<400> 7544

atttcttggt gcttggatga gcatattcct tatgcgtcat tcataggcat cttctctaata 60
atataaaaaat taaaaattaa aaataaattg gtctatctca taattttgca gacctatgat 120
gttaaggtaa tgttctcgcg caatgcatta ctgggtggaca ttgttgggtga gagtatcggt 180
cgagtattga aactagattc aattcaagct tggccaacat ggaaaggaat agatgtaatg 240
atatttgatt cttgcattgg tggatcacac aggaagaaaa caccgtatgt actcattata 300
actagttcac tttcacatat tccatgcaat cattatacac tttttcatat ttttttttta 360

ta

362

<210> 7545
<211> 327
<212> DNA
<213> Glycine max

<400> 7545

aaatgaagac cagtaaagta tatagaaaat atgtataaag gaacaaaact agaaattgtg 60
aatcaaaata ttgaccacct ccattgctac ttcgtgcatt gataaatatg tatttatgta 120
ttagtaaagc atactacatt gatgttagac aacttatcca ttctaattga aaatgttctt 180
tcaattttatc tcagcctgat atgccttatt atttaattat aacgaatctg atctcttata 240
tatattaaat taaaatatat attgccctct gacaatttta ataacatcta ttaccctcta 300
aaaataaaat tccacttgat tattttt 327

<210> 7546
<211> 222
<212> DNA
<213> Glycine max

<400> 7546

aggcaaccat gtggatggat cggtttgctc ttaccttgaa cgggagtcaa aaacttcccc 60
gattgttaac caaggccaag gcgatggcag acacctactc cgccccgaa gagattcatg 120
ggcttctcgg ctattgtcag catatgatag acttaatggc ccacataatt agaaatcggt 180
aggaaacttg tgtggtctct cagaccttga ctagatatga ct 222

<210> 7547
<211> 163
<212> DNA
<213> Glycine max

<400> 7547

aaagacgaac cagaagcttg cggaagaaga agaaacgcct cgcggatgga tgctcaactc 60
gcggaagaag ggaagggaat gcgcacaaga agaaaaggct ggggtgcacaa aaatgtttta 120
aaactaacaa gggatatttct gccttttccc gtttagtggt ggg 163

<210> 7548

<211> 258
 <212> DNA
 <213> Glycine max

<400> 7548

ctgtgatcgt atccccatat tagctagatc ttgacgggta ttcaagtcac ccttcctctt 60
 gccttgaatg ttaaggagca tcccaatcac actgtcacia acatttgtct ccacatgcgt 120
 aacattcatt caatgtctaa cgtctagatt agaccagtct ggaagatcaa agaaaatgga 180
 cctctgcttc atatgcaact cttactttta tccttctttg ggtctttcca atacagaatc 240
 aagtgttgaa ccgctgat 258

<210> 7549
 <211> 165
 <212> DNA
 <213> Glycine max

<400> 7549

caaaccttcc tcatatgcaa ggctcatgca actttcattc atccaacttc gatccatcta 60
 aataataact ctgggatact cgcaaaaatta tttgatgcat gaaaatctca ctttttcatt 120
 ataggtgtgg ccctatccca ttcatagaaga cattttttat ggtag 165

<210> 7550
 <211> 595
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 7550

tgtaatatcc atagtaatca agaaaatgac gttggggggg tcaatatcca aaccaattat 60
 tatattatct tcaaattccag aatattccac ctccatatac catattgctn tgtatctgga 120
 tagctcaaca agcatacctt gtgcttagct tcaaatcata tgttgtctaa ccacatggga 180
 ttgtaacacc cttctcaaat caaaggaatt tcaactccct ttcattttta tattcatagt 240
 caccgaaggg atcaatgagt gattaatagc aattgaatta cactacctct aataaataaa 300
 aaaataaaat catgatctct ttgtctatga ggtgggatcc gacaaatgaa atcatcactg 360
 tgatcctcac ctaactacaa cagaacatga accattcgct cttagatcaa acatatatcg 420
 tattcacatc ctgttaactt actataaaaa acatttatta ccaactacgt cgcaattcgc 480

taccattata atattataat catatccaca ttaattctaa tcatatctgt tgtacacatg 540
 ctataataac gccacaata caacgacatc cgtattatta tacgtttatc agccc 595

<210> 7551
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 7551
 gctttgtcat gaggccagtc ctgaccaatc attacagaga atccaatgtc agagccaaat 60
 gaaagattat ctttcaattt tgattctctt gtcacgggta aatgcacgtc gctga 115

<210> 7552
 <211> 139
 <212> DNA
 <213> Glycine max

<400> 7552
 gttagatata aattatggaa ttgatgaaac agaatacaata ctctcgtttt ctgaaaccct 60
 caaaggctctt atgaagctca tatgttaacc cccaatgttg atatattatg aaagactata 120
 acatatgatt ctccccccc 139

<210> 7553
 <211> 61
 <212> DNA
 <213> Glycine max

<400> 7553
 gctggctgtg acaagggtaa tacatgtggg gttctggaca ttttttagag gatgccatct 60
 t 61

<210> 7554
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 7554
 caaagaatca aagtttcaag attcaagttc cgtgaatcaa gatcaagatt caagactcaa 60
 gattcaagaa tcaagagaag actcaatcaa gataagtatc aaaatgtttt tttcaaaaac 120

taagtagcac atgaattttt cacaaaacct ttaccaaag agtttttact ctctagtaat 180
cgattaccag attattataa ttgattacca gtagcaaat 220

<210> 7555
<211> 534
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7555

gtcacctatg tgtatagaat ctttccctta aaacgcccta tgttttttat cccctcccc 60
ttgaaatttc ttcattctaac gagacgactt tgccacactt ttattactta cactcaacaa 120
gagaaatcga cctattatct cccaattgg ttgcccctcc cactttggga taagtgtgat 180
gaaagatgag ttgcatccta tngaaaaacc ccatatctat ggaatcattc aaaaatctca 240
aaccatccct tgtatgtctt ccaaaaggat tttatgaaat aatattatac tattggacct 300
tgctctttga gctccacact tcccacggct tcttacttct tacaccaact tgactaaaac 360
ctattttcat gtgaattgat gactgaccca tccaaaccac tatcatattt tatgttcggc 420
ccatagcaga gcttgaccca atgtcatatc tcaatttctt cagactattg gcctttcgcc 480
aggtctctct tattcacaaa atttattcta ttttcottca tgggttacag gatg 534

<210> 7556
<211> 236
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7556

aaactaacc aaggcaacaa ggggggttgag gattatttca aggaaatgga tgtgctcatg 60
attcaagcaa agattgaaga agatgaggag gtaactatgg ctcgatttct taatggtttg 120
actaatgata tccgtgatat tggtgatctg caggagtttg ttgaaatgga ttatntgctt 180
cacaaagcaa tccaagttga gcaacattaa taaggaagga gtggcttaag agttta 236

<210> 7557
<211> 465
<212> DNA
<213> Glycine max

[The page contains faint, illegible markings or bleed-through from the reverse side.]

<210> 7558

<212> DNA

<212> DNA

<400> 7558

<210> 7559

<211> 167

<212> DNA

<213> Glycine max

<400> 7559

3221

<210> 7560
 <211> 113
 <212> DNA
 <213> Glycine max

<400> 7560

gttttagtgc gtgaggggat gaagtaattc aggtttttaaa tttatcaaca acataacatc 60
 agttttttaaa aaataaccga tgttgaccta agtagttaac atcggttttc aaa 113

<210> 7561
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 7561

cccatttttaa cacttgcttg aagaacaact tacattctag cctatgaaca gcacattaaa 60
 tatttgact taccaaaaact tgcatttggtg gtagctggaa tatctgtcac catcctgcc 120
 atgttaaaga gagaagattg attacaaacg aatttatattt aggtagccag tccaaaatat 180
 ttataaattt gagcacattt atatacttat taggttttagc tctacagctt atataacttt 240
 aatacaatta catcatattt t 261

<210> 7562
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 7562

tgttctcttc tatatacctt tgtaaggctg ttcaacgagc ttgaatgctt tgatttccat 60
 acagcaagtg atgcagaaat tcatgacctg cagatacaac attggttgaa attatgacat 120
 aaaaaacgat gtcaatataa acaagcaaatt agacctaatg atccacatac tacattgttt 180
 agcataatca aatttggtgaa taagcacact ctcaaatcac actctttatt ttagctgaa 240
 atttatagaa atcacat 257

<210> 7563
 <211> 206
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 7563

tcagtttagac tgtaactgta ctgacggcag agtcagtagt ctttaaattgg cctctcaata 60
gtttttctag ttctaagctc atttgtaatc aataaacaag aaattatttc tctctttact 120
gttctcttcc tactacattt gtaatatggt atcaagaatg taaaatgaga gaagctgang 180
ggatattgga ctgaanatca tgtgtc 206

<210> 7564

<211> 227

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7564

cacttatnt aacctgcaat agcaaattac atttaaaaag aactatccct aaccaaagtt 60
tcttctaact tgatagttag caaacatatt catagctaata gtatctcgaa atctttgccca 120
ttactcagta gcttgaatag ttgtgatatc atctatgaca ttatcttgaa ctcttccct 180
tgattgatgg actaaactct cattaacaac agataagaat ttaagtc 227

<210> 7565

<211> 191

<212> DNA

<213> Glycine max

<400> 7565

acttcttcaa gcttttcctt gagcttcaag ctttaacctt aggttggttca ccatgttggt 60
catgttggtt cccctatctc taaagatctt cccatctttg gtttgatgat gcaaacaatga 120
tcctagttta tctgaaatt tttaacactt agagagatag atatcatcat catggtcata 180
tatattatat t 191

<210> 7566

<211> 275

<212> DNA

<213> Glycine max

<400> 7566

agcttatgca ttaggttagat tcagctttgg gagaagttac tcatgagaaa ttttataata 60
attcaagggt ataagtataa gttgcataag aaggtttttag cctacgagag gacattaatt 120

accaactcat tttctttctac tatagggtctt attgtcgtag acattttacag catgaataca 180
ttgaatactt ttagttggat tattataaca ttttcacttc tatcttttaa ttttatgcaa 240
tatataactg qcaatcaata atatatgatg ggtct 275

<210>	7567
<211>	224
<212>	DNA
<213>	Glycine max

<400> 7567

aaccccccca tgtccaggaa gatcatatct ttctaaaggg ctttcctcat tctttggagg 60
gagtggcgaa agattgactg tactaccttg ctcccaggac cattaccaac tgggatgacc 120
ctaagagggt gttcttggag aaattcttcc ctgcatctaa gaccattgtc atcagaaaag 180
atatttcaag cctcaggcca gtggagagag cttgtatgag ttct 224

<210>	7568
<211>	170
<212>	DNA
<213>	Glycine max

<400> 7568

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atggcaatga aggggctaca tggctttttt ttaccccact tgcattatat aaattctaga      60
gacatatgca ataattgcac attggtgaac acatcatact gcaattctct aaagctttct      120
atatatcatg gcaaaacaaa aacacgcttt ctgagaagct gccagaaaaa      170
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<210>	7569
<211>	154
<212>	DNA
<213>	Glycine max

<400> 7569

acctatttgg tgtatgtatt tgggaaattt cattcataat agttctttgc taaatgcaat 60
catgttagat tgtaaagcaa aaggaaagaa aacattatta gaaaaataat aaagtaagct 120
aaagacaagt ggatagatcg gattttgaat gaat 154

<210>	7570
<211>	331

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 7570

caatatgatt caaagataga tcttctaaga gtcttaggaa gaaaatttaa gctgaaacag 60
caagaggttt ggccaaagaa tctaagataa aatgggtttac aagagatata ctctctgggt 120
atcgattacc agaggatgta attgattacc aatggccaaa atgcttcctg aaatgatttt 180
aaaatgtctt gaatactctt gaaacatgta atcgatacac atgtctggat cganaccaca 240
gttgaactat ttataaacct attagatatt gaattcaatt taaaaatgga tcgttacctc 300
gatggtatcg atacagtagt ttgaccgtta t 331

<210> 7571
<211> 189
<212> DNA
<213> Glycine max

<400> 7571

tgcacacttt ttgaagctga atgatattgt caaaaatttg aacctgaac ttaaataagt 60
atctcttgat accttgctta gattctagga gagcatatgg ttcaaggcaa aattacccca 120
aatttggggg agtggaaacta agaggtatgc aaagaaaaag gtaaagcact agcatacata 180
aaaaataag 189

<210> 7572
<211> 276
<212> DNA
<213> Glycine max

<400> 7572

ttttcttctg gagttgctgc tacttctaaa tcttgcaaaa aaaatttgat tctctcttaa 60
ttatgccttc tacagtggtg gttaatctcc aatcaatgg gaatcaaadc acctacagta 120
gatcttcttt gtatacaaga gaacacaaca ataagtatcc acttcagaag aacatagtat 180
atatgataac taagatatga acacaaagaa tcaatgaatt aaagagaaca atataaagca 240
atgtctaaaa ctgaactata ctttcttaat ctagt 276

<210> 7573